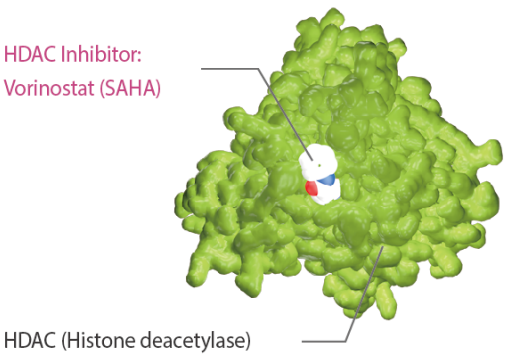
JAK

Janus kinase



Janus kinase (JAK) is a family of intracellular, nonreceptor tyrosine kinases that transduce cytokine-mediated signals via the JAK-STAT pathway. Since members of the type I and type II cytokine receptor families possess no catalytic kinase activity, they rely on the JAK family of tyrosine kinases to phosphorylate and activate downstream proteins involved in their signal transduction pathways. The receptors exist as paired polypeptides, thus exhibiting two intracellular signal-transducing domains. JAKs associate with a proline-rich region in each intracellular domain, which is adjacent to the cell membrane and called a box1/box2 region. After the receptor associates with its respective cytokine/ligand, it goes through a conformational change, bringing the two JAKs close enough to phosphorylate each other. The JAK autophosphorylation induces a conformational change within itself, enabling it to transduce the intracellular signal by further phosphorylating and activating transcription factors called STATs. The activated STATs dissociate from the receptor and form dimers before translocating to the cell nucleus, where they regulate transcription of selected genes.

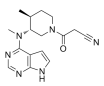
JAK Inhibitors & Modulators

(3R,4S)-Tofacitinib

Cat. No.: HY-40354D

Bioactivity: (3R,4S)-Tofacitinib is an enantiomer of Tofacitinib. Tofacitinib inhibits **JAK3** with **IC_{50}** of 1 nM.

Purity: >98%
Clinical Data: No Development Reported
Size: 5 mg

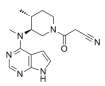


(3S,4R)-Tofacitinib

Cat. No.: HY-40354B

Bioactivity: (3S,4R)-Tofacitinib is an enantiomer of Tofacitinib. Tofacitinib inhibits **JAK3** with **IC_{50}** of 1 nM.

Purity: >98%
Clinical Data: No Development Reported
Size: 5 mg

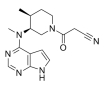


(3S,4S)-Tofacitinib

Cat. No.: HY-40354C

Bioactivity: (3S,4S)-Tofacitinib is the S-enantiomer of Tofacitinib. Tofacitinib inhibits **JAK3** with **IC_{50}** of 1 nM.

Purity: >98%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 5 mg



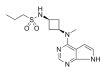
Abrocitinib

(PF-04965842)

Cat. No.: HY-107429

Bioactivity: Abrocitinib (PF-04965842) is a potent, orally active and selective **JAK1** inhibitor, with **IC_{50}**s of 29 and 803 nM for JAK1 and JAK2, respectively. Abrocitinib (PF-04965842) exhibits less active effect on TYK2 (**IC_{50}**, 1.253 μM), ...

Purity: 99.79%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg

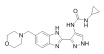


AT9283

Cat. No.: HY-50514

Bioactivity: AT9283 is a multitargeted kinase inhibitor which potently inhibits **aurora kinase A/B**, **JAK2/3** (**IC_{50}**=1.2 nM, 1.1 nM).

Purity: 99.13%
Clinical Data: Phase 2
Size: 10mM x 1mL in DMSO, 2 mg, 5 mg, 10 mg, 50 mg, 100 mg

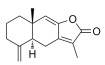


Atractylenolide I

Cat. No.: HY-N0201

Bioactivity: Atractylenolide I is a sesquiterpene derived from the rhizome of Atractylodes macrocephala, possesses diverse bioactivities, such as neuroprotective, anti-allergic, anti-inflammatory and anticancer properties. Atractylenolide I reduces protein levels of phosphorylated **JAK2** and **STAT3** in A375 cells, and...

Purity: 99.08%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg

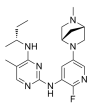


AZ-3

Cat. No.: HY-112442

Bioactivity: AZ-3 is a potent and selective **JAK1** inhibitor with an **IC_{50}** of 34 nM.

Purity: >98%
Clinical Data: No Development Reported
Size: 500 mg, 250 mg

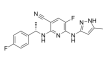


AZ960

Cat. No.: HY-10411

Bioactivity: AZ960 is a potent and specific inhibitor of the **JAK2** kinase with a **K_i** of 0.45 nM.

Purity: 98.04%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 1 mg, 2 mg, 5 mg, 10 mg, 50 mg

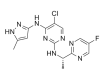


AZD-1480

Cat. No.: HY-10193

Bioactivity: AZD-1480 is an ATP-competitive inhibitor of **JAK1** and **JAK2** with **IC_{50}**s of 1.3 and <0.4nM, respectively.

Purity: 99.37%
Clinical Data: Phase 1
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg, 100 mg, 200 mg



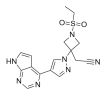
Baricitinib

(INCB028050; LY3009104)

Cat. No.: HY-15315

Bioactivity: Baricitinib is a selective and orally bioavailable **JAK1** and **JAK2** inhibitor with **IC_{50}**s of 5.9 nM and 5.7 nM, respectively.

Purity: 99.93%
Clinical Data: Launched
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg, 100 mg, 200 mg, 500 mg



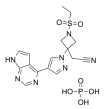
Tel: 609-228-6898 Fax: 609-228-5909 Email: sales@MedChemExpress.com

Baricitinib phosphate

(INCB028050 (phosphate); LY3009104 (phosphate)) Cat. No.: HY-15315A

Bioactivity: Baricitinib phosphate is a selective orally bioavailable **JAK1**/ **JAK2** inhibitor with **IC_{50}** of 5.9 nM and 5.7 nM, respectively.

Purity: 99.49%
Clinical Data: Launched
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg, 100 mg

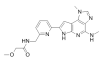


BMS-066

Cat. No.: HY-18710

Bioactivity: BMS-066 is an **IKKβ/Tyk2** pseudokinase inhibitor, with **IC_{50}s** of 9 nM and 72 nM, respectively.

Purity: >98%
Clinical Data: No Development Reported
Size: 250 mg, 500 mg

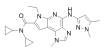


BMS-911543

Cat. No.: HY-15270

Bioactivity: BMS-911543 is a selective **JAK2** inhibitor, with **IC_{50}**s of 1.1 nM, less selective at JAK1, JAK3 and TYK2 (**IC_{50}**, 75, 360, 66 nM, respectively).

Purity: 98.12%
Clinical Data: Phase 2
Size: 10mM x 1mL in DMSO, 2 mg, 5 mg, 10 mg, 50 mg, 100 mg

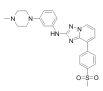


CEP-33779

Cat. No.: HY-15343

Bioactivity: CEP-33779 is a novel, selective, and orally bioavailable inhibitor of **JAK2** with an **IC_{50}** of 1.8±0.6 nM.

Purity: 98.04%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg, 100 mg

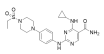


Cerdulatinib

(PRT062070; PRT2070) Cat. No.: HY-15999

Bioactivity: Cerdulatinib (PRT062070) is a dual **JAK** and **SYK** inhibitor with **IC_{50}**s of 12, 6, 8 and 32 for JAK1, 2, 3 and SYK, respectively.

Purity: 99.00%
Clinical Data: Phase 2
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg, 100 mg, 200 mg

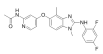


CHZ868

Cat. No.: HY-18960

Bioactivity: CHZ868 is a type II **JAK2** inhibitor with an **IC_{50}** of 0.17 μM in EPOR JAK2 WT Ba/F3 cell.

Purity: 98.33%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

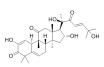


Cucurbitacin I

(Elatericin B; JSI-124; NSC-521777) Cat. No.: HY-N1405

Bioactivity: Cucurbitacin I is a natural selective inhibitor of **JAK2/STAT3**, with potent anti-cancer activity.

Purity: 98.0%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 1 mg, 5 mg, 10 mg

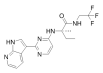


Decernotinib

(VX-509; VRT-831509) Cat. No.: HY-12469

Bioactivity: Decernotinib is a potent, orally active **JAK3** inhibitor, with **K_i**s of 2.5, 11, 13 and 11 nM for **JAK3**, JAK1, JAK2, and TYK2, respectively.

Purity: 98.91%
Clinical Data: Phase 3
Size: 10mM x 1mL in DMSO, 2 mg, 5 mg, 10 mg, 25 mg, 50 mg

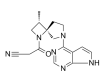


Delgocitinib

(JTE-052) Cat. No.: HY-109053

Bioactivity: Delgocitinib is a novel and specific **JAK** inhibitor with **IC_{50}**s of 2.8, 2.6, 13 and 58 nM for JAK1, JAK2, JAK3 and Tyk2, respectively.

Purity: 99.14%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 1 mg, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

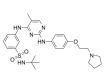


Fedratinib

(TG-101348; SAR 302503) Cat. No.: HY-10409

Bioactivity: Fedratinib (TG-101348) is a selective inhibitor of **JAK2** with an **IC_{50}** of 3 nM, showing 35- and 334-fold selectivity over JAK1 and JAK3, respectively.

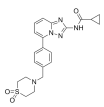
Purity: 98.62%
Clinical Data: Phase 2
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg, 100 mg



Filgotinib
(GLPG0634) Cat. No.: HY-18300

Bioactivity: Filgotinib (GLPG0634) is a selective **JAK1** inhibitor with **IC_{50}** of 10 nM, 28 nM, 810 nM, and 116 nM for JAK1, JAK2, JAK3, and TYK2, respectively.

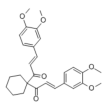
Purity: 99.64%
Clinical Data: Phase 3
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg



FLLL32
Cat. No.: HY-100544

Bioactivity: FLLL32, a synthetic analog of curcumina, is a **JAK2/STAT3** dual inhibitor with anti-tumor activity [1] [2].

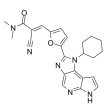
Purity: 99.78%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg



FM381
Cat. No.: HY-102046

Bioactivity: FM381 is a potent covalent reversible inhibitor of **JAK3** targeting the unique Cys909 at the gatekeeper position +7 in JAK3. FM-381 has an **IC_{50}** of 127 pM for JAK3, with 410, 2700 and 3600-fold selectivity over JAK1, JAK2 and TYK2, respectively.

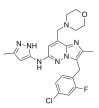
Purity: 98.41%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 2 mg, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg



Gandotinib
(LY2784544) Cat. No.: HY-13034

Bioactivity: Gandotinib (LY2784544) is a potent **JAK2** inhibitor with **IC_{50}** of 3 nM. Gandotinib (LY2784544) also inhibits FLT3, FLT4, FGFR2, TYK2, and TRKB with IC $_{50}$ of 4, 25, 32, 44, and 95 nM.

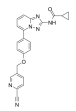
Purity: 99.96%
Clinical Data: Phase 2
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg, 100 mg



GLPG0634 analog
Cat. No.: HY-13961

Bioactivity: GLPG0634 (analog) (compound176)is a pan JAK inhibitor with IC50s of 50-200 nM for JAK1/JAK2/JAK3; more information can be found in the reference patents.

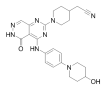
Purity: 98.00%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 2 mg, 5 mg, 10 mg, 50 mg



Gusacitinib
(ASN-002) Cat. No.: HY-103018

Bioactivity: Gusacitinib (ASN-002) is a potent dual inhibitor of spleen tyrosine kinase (**SYK**) and janus kinase (**JAK**) with **IC_{50}** values of 5-46 nM.

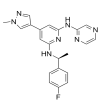
Purity: 99.41%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg



Ilginatinib
(NS-018) Cat. No.: HY-19631A

Bioactivity: Ilginatinib (NS-018) is a highly active and orally bioavailable **JAK2** inhibitor, with an **IC_{50}** of 0.72 nM, 46-, 54-, and 31-fold selectivity for JAK2 over JAK1 (**IC_{50}**, 33 nM), JAK3 (**IC_{50}**, 39 nM), and Tyk2 (**IC_{50}**, 22 nM).

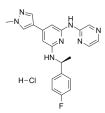
Purity: 95.88%
Clinical Data: Phase 2
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg, 100 mg



Ilginatinib hydrochloride
(NS-018 hydrochloride) Cat. No.: HY-19631B

Bioactivity: Ilginatinib hydrochloride (NS-018 hydrochloride) is a highly active and orally bioavailable **JAK2** inhibitor, with an **IC_{50}** of 0.72 nM, 46-, 54-, and 31-fold selectivity for JAK2 over JAK1 (**IC_{50}**, 33 nM), JAK3 (**IC_{50}**, 39 nM), and Tyk2 (**IC_{50}**,...

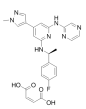
Purity: 98.02%
Clinical Data: Phase 2
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg, 100 mg



Ilginatinib maleate
(NS-018 (maleate)) Cat. No.: HY-19631

Bioactivity: Ilginatinib (maleate) (NS-018 (maleate)) is a highly active and orally bioavailable **JAK2** inhibitor, with an **IC_{50}** of 0.72 nM, 46-, 54-, and 31-fold selectivity for JAK2 over JAK1 (**IC_{50}**, 33 nM), JAK3 (**IC_{50}**, 39 nM), and Tyk2 (**IC_{50}**, 22 nM).

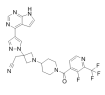
Purity: 97.04%
Clinical Data: Phase 2
Size: 10mM x 1mL in DMSO, 1 mg, 5 mg, 10 mg, 50 mg, 100 mg



Itacitinib
(INCB039110) Cat. No.: HY-16997

Bioactivity: Itacitinib is a potent and selective inhibitor of **JAK1**, with >20-fold selectivity for JAK1 over JAK2 and >100-fold over JAK3 and TYK2; Itacitinib is used in the research of myelofibrosis.

Purity: 99.87%
Clinical Data: Phase 3
Size: 10mM x 1mL in DMSO, 1 mg, 5 mg, 10 mg, 50 mg, 100 mg, 200 mg

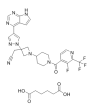


Itacitinib adipate

Cat. No.: HY-16997A

Bioactivity: Itacitinib adipate is a selective **JAK1** inhibitor which has been tested for efficacy and safety in a phase II trial in myelofibrosis.

Purity: 99.37%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 1 mg, 5 mg, 10 mg, 50 mg, 100 mg

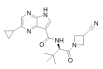


JAK-IN-1

Cat. No.: HY-13827

Bioactivity: JAK-IN-1 is a **JAK1/2/3** inhibitor with **IC_{50}**s of 0.26, 0.8 and 3.2 nM, respectively. JAK-IN-1 shows improved selectivity for JAK3 over JAK1.

Purity: >98%
Clinical Data: No Development Reported
Size: 250 mg, 500 mg

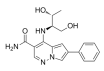


JAK-IN-3

Cat. No.: HY-111750

Bioactivity: JAK-IN-3 (compound 22) is a potent **JAK** inhibitor, with **IC_{50}** values of 3 nM, 5 nM, 34 nM and 70 nM for JAK3, JAK1, TYK2 and JAK2, respectively [1].

Purity: >98%
Clinical Data: No Development Reported
Size: 100 mg, 500 mg, 250 mg

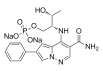


JAK-IN-4

Cat. No.: HY-111749

Bioactivity: JAK-IN-4 is a prodrug of a **JAK** inhibitor, effective in murine collagen induced arthritis model [1].

Purity: >98%
Clinical Data: No Development Reported
Size: 100 mg, 250 mg, 500 mg

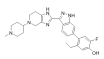


JAK-IN-5

Cat. No.: HY-111471

Bioactivity: JAK inhibitor 1 is an inhibitor of **JAK** extracted from patent US20170121327A1, compound example 283.

Purity: >98%
Clinical Data: No Development Reported
Size: 250 mg, 500 mg

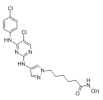


JAK/HDAC-IN-1

Cat. No.: HY-126141

Bioactivity: JAK/HDAC-IN-1 is a potent **JAK2/HDAC** dual inhibitor, exhibits antiproliferative and proapoptotic activities in several hematological cell lines. JAK/HDAC-IN-1 shows **IC_{50}**s of 4 and 2 nM for JAK2 and HDAC, respectively [1].

Purity: >98%
Clinical Data: No Development Reported
Size: 100 mg, 250 mg, 500 mg

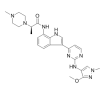


JAK1-IN-3

Cat. No.: HY-107361

Bioactivity: JAK1-IN-3 is a selective **JAK1** inhibitor, with an **IC_{50}** of 73 nM, weakly inhibits JAK2, and shows little inhibition on JAK3 (**IC_{50}**, >14.7, >30 μM, respectively).

Purity: 99.32%
Clinical Data: No Development Reported
Size: 5 mg, 10 mg, 50 mg, 100 mg

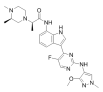


JAK1-IN-4

Cat. No.: HY-116505

Bioactivity: JAK1-IN-4 is a potent and selective **JAK1** inhibitor, with **IC_{50}**s of 85 nM, 12.8 μM and >30 μM for JAK1, JAK2, and JAK3, respectively. JAK1-IN-4 inhibits STAT3 phosphorylation in NCI-H 1975 cells (IC_{50}, 227 nM) [1].

Purity: >98%
Clinical Data: No Development Reported
Size: 250 mg, 500 mg

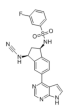


JAK3 covalent inhibitor-1

Cat. No.: HY-119935

Bioactivity: JAK3 covalent inhibitor-1 is a potent and selective **janus kinase 3 (JAK3)** covalent inhibitor with an **IC_{50}** of 11 nM and shows 246-fold selectivity vs other JAKs [1].

Purity: >98%
Clinical Data: No Development Reported
Size: 500 mg, 250 mg, 100 mg

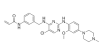


JAK3-IN-1

Cat. No.: HY-19544

Bioactivity: JAK3-IN-1 is a potent JAK3 inhibitor with IC50 of 4.8 nM, also inhibits JAK1 (IC50 = 896 nM) and JAK2 (IC50 = 1050 nM). IC50 value: 4.8 nM [1] Target: JAK3 in vitro: JAK3-IN-1 provides a set of useful tools to pharmacologically interrogate JAK3-dependent biology. JAK3-IN-1 completely inhibits IL-4...

Purity: 99.98%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg, 100 mg

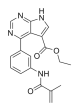


JAK3-IN-6

Cat. No.: HY-101976

Bioactivity: JAK3-IN-6 is a potent, selective irreversible Janus Associated Kinase 3 (JAK3) inhibitor, with an **IC_{50}** of 0.15 nM.

Purity: >98%
Clinical Data: No Development Reported
Size: 250 mg, 500 mg

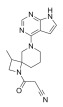


JAK3-IN-7

Cat. No.: HY-U00390

Bioactivity: JAK3-IN-7 is a potent and selective **JAK3** inhibitor extracted from patent WO2011013785A1, has an **IC_{50}** of <0.01 μM.

Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg, 10 mg



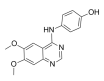
JANEX-1

(WHI-P131; Jak3 inhibitor I)

Cat. No.: HY-15508

Bioactivity: JANEX-1 is a potent and specific **JAK3** inhibitor (estimated **K_i**=2.3 μM). JANEX-1 (WHI-P131) shows potent JAK3-inhibitory activity (**IC_{50}** of 78 μM), does not inhibit JAK1 and JAK2.

Purity: 99.84%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO,
5 mg, 10 mg, 50 mg



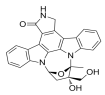
Lestaurtinib

(CEP-701; KT-5555)

Cat. No.: HY-50867

Bioactivity: Lestaurtinib (CEP-701;KT-5555) is a multi-kinase inhibitor with potent activity against the Trk family of receptor tyrosine kinases. Lestaurtinib inhibits **JAK2**, **FLT3** and **TrkA** with **IC_{50}**s of 0.9, 3 and less than 25 nM, respectively.

Purity: 99.0%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO,
1 mg, 5 mg

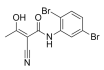


LFM-A13

Cat. No.: HY-18009

Bioactivity: LFM-A13 is a potent **BTK**, **JAK2**, **PLK** inhibitor, inhibits recombinant BTK, Plx1 and PLK3 with **IC_{50}**s of 2.5 μM, 10 μM and 61 μM; LFM-A13 shows no effects on JAK1 and JAK3, Src family kinase HCK, EGFR and IRK.

Purity: 99.70%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO,
5 mg, 10 mg, 50 mg



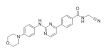
Momelotinib

(CYT387)

Cat. No.: HY-10961

Bioactivity: Momelotinib (CYT387) is an ATP-competitive inhibitor of **JAK1/JAK2** with **IC_{50}**a of 11 nM and 18 nM,respectively. CYT387 shows much less activity against JAK3.

Purity: 98.11%
Clinical Data: Phase 3
Size: 10mM x 1mL in DMSO,
5 mg, 10 mg, 50 mg, 100 mg, 200 mg



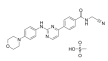
Momelotinib Mesylate

(CYT387 (Mesylate))

Cat. No.: HY-10963

Bioactivity: Momelotinib Mesylate (CYT387 Mesylate) is an ATP-competitive inhibitor of **JAK1/JAK2** with **IC_{50}** of 11 nM/18 nM, appr 10-fold selectivity versus JAK3.

Purity: >98%
Clinical Data: Phase 3
Size: 5 mg, 10 mg, 50 mg, 100 mg



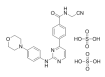
Momelotinib sulfate

(CYT387 (sulfate salt))

Cat. No.: HY-10962

Bioactivity: Momelotinib sulfate (CYT387 sulfate) is an ATP-competitive inhibitor of **JAK1/JAK2** with **IC_{50}** of 11 nM/18 nM, 10-fold selectivity versus JAK3 (IC_{50}=155 nM).

Purity: 96.0%
Clinical Data: Phase 3
Size: 10mM x 1mL in DMSO,
5 mg, 10 mg, 50 mg, 100 mg



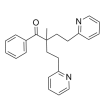
NSC 42834

(JAK2 Inhibitor V; Z3)

Cat. No.: HY-15480

Bioactivity: NSC 42834 a novel specific inhibitor of Jak2, inhibits Jak2-V617F and Jak2-WT autophosphorylation in a dose-dependent manner but was not cytotoxic to cells at concentrations that inhibited kinase activity.

Purity: 95.5%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO,
5 mg



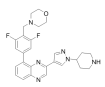
NVP-BSK805

(BSK 805)

Cat. No.: HY-14722

Bioactivity: NVP-BSK805 is an ATP-competitive **JAK2** inhibitor, with **IC_{50}**s of 0.48 nM, 31.63 nM, 18.68 nM, and 10.76 nM for JAK2 JH1 (JAK homology 1), JAK1 JH1, JAK3 JH1, and TYK2 JH1, respectively.

Purity: >98%
Clinical Data: No Development Reported
Size: 5 mg, 10 mg, 50 mg, 100 mg

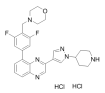


NVP-BSK805 dihydrochloride

(BSK805 dihydrochloride) Cat. No.: HY-14722A

Bioactivity: NVP-BSK805 dihydrochloride is an ATP-competitive **JAK2** inhibitor, with **IC_{50}**s of 0.48 nM, 31.63 nM, 18.68 nM, and 10.76 nM for JAK2 JH1 (JAK homology 1), JAK1 JH1, JAK3 JH1, and TYK2 JH1, respectively.

Purity: 99.36%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg, 100 mg

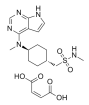


Oclacitinib maleate

(PF-03394197 maleate) Cat. No.: HY-13577A

Bioactivity: Oclacitinib maleate is a novel **JAK** inhibitor. Oclacitinib is most potent at inhibiting **JAK1** (**IC_{50}**=10 nM).

Purity: 99.53%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg, 100 mg

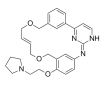


Pacritinib

(SB1518) Cat. No.: HY-16379

Bioactivity: Pacritinib is a potent inhibitor of both wild-type **JAK2** (IC $_{50}$=23 nM) and **$JAK2^{V617F}$** mutant (IC $_{50}$=19 nM). Pacritinib also inhibits **FLT3** (IC $_{50}$=22 nM) and its mutant **$FLT3^{D835Y}$** (IC $_{50}$=6 nM).

Purity: 99.66%
Clinical Data: Phase 3
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg, 100 mg

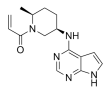


PF-06651600

Cat. No.: HY-100754

Bioactivity: PF-06651600 is a potent **JAK3**-selective inhibitor with an **IC_{50}** of 33.1 nM.

Purity: 99.98%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 25 mg, 50 mg

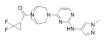


PF-06700841

Cat. No.: HY-112708

Bioactivity: PF-06700841 is a dual **JAK1** and **TYK2** inhibitor with **IC_{50}**s of 17 and 23 nM, respectively. Anti-inflammatory activity [1].

Purity: >98%
Clinical Data: No Development Reported
Size: 5 mg, 10 mg, 50 mg, 100 mg

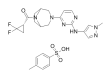


PF-06700841 P-Tosylate

Cat. No.: HY-112708A

Bioactivity: PF-06700841 P-Tosylate is a dual **JAK1** and **TYK2** inhibitor with **IC_{50}**s of 17 and 23 nM, respectively. Anti-inflammatory activity [1].

Purity: 99.66%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg, 100 mg

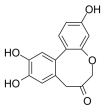


Protosappanin A

(PTA) Cat. No.: HY-113573

Bioactivity: Protosappanin A (PTA), an immunosuppressive ingredient and major biphenyl compound isolated from Caesalpinia sappan L, suppresses **JAK2/STAT3**-dependent inflammation pathway through down-regulating the phosphorylation of JAK2 and STAT3 [1].

Purity: 98.88%
Clinical Data:
Size: 5 mg

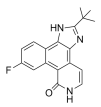


Pyridone 6

(CMP 6; JAK Inhibitor) Cat. No.: HY-14435

Bioactivity: Pyridone 6 is a **pan-JAK** inhibitor, which potently inhibits the JAK kinase family, with **IC_{50}**s of 1 nM for **JAK2** and **TYK2**, 5 nM for **JAK3**, and 15 nM for **JAK1**, while displaying significantly weaker affinities (130 nM to >10 mM) for other protein tyrosine kinases.

Purity: 98.04%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 2 mg, 5 mg, 10 mg, 50 mg, 100 mg

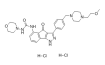


RGB-286638

Cat. No.: HY-15504

Bioactivity: RGB-286638 is a **CDK** inhibitor that inhibits the kinase activity of **cyclin T1-CDK9**, **cyclin B1-CDK1**, **cyclin E-CDK2**, **cyclin D1-CDK4**, **cyclin E-CDK3**, and **p35-CDK5** with **IC_{50}**s of 1, 2, 3, 4, 5 and 5 nM, respectively; also inhibits GSK-3β, TA...

Purity: >98%
Clinical Data: Phase 1
Size: 5 mg, 10 mg, 50 mg, 100 mg

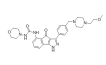


RGB-286638 free base

Cat. No.: HY-15504A

Bioactivity: RGB-286638 is a **CDK** inhibitor that inhibits the kinase activity of **cyclin T1-CDK9**, **cyclin B1-CDK1**, **cyclin E-CDK2**, **cyclin D1-CDK4**, **cyclin E-CDK3**, and **p35-CDK5** with **IC_{50}**s of 1, 2, 3, 4, 5 and 5 nM, respectively; also inhibits GSK-3β, TA...

Purity: 99.55%
Clinical Data: Phase 1
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg, 100 mg

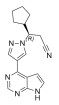


Ruxolitinib

(INCB018424) Cat. No.: HY-50856

Bioactivity: Ruxolitinib is a potent and selective **JAK1/2** inhibitor with **IC_{50}**s of 3.3 nM and 2.8 nM in cell-free assays, and has 130-fold selectivity for JAK1/2 over JAK3.

Purity: 99.99%
Clinical Data: Launched
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg, 100 mg, 200 mg, 500 mg, 1 g

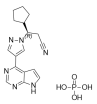


Ruxolitinib phosphate

(INCB018424 phosphate) Cat. No.: HY-50858

Bioactivity: Ruxolitinib phosphate is a potent **JAK1/2** inhibitor with **IC_{50}**s of 3.3 nM/2.8 nM, respectively, showing more than 130-fold selectivity over JAK3.

Purity: 99.89%
Clinical Data: Launched
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg, 100 mg, 200 mg, 500 mg, 1 g

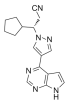


Ruxolitinib S enantiomer

(S-Ruxolitinib; INCB18424) Cat. No.: HY-50856A

Bioactivity: Ruxolitinib S enantiomer is the S-enantiomer of Ruxolitinib. Ruxolitinib is the first potent, selective **JAK1/2** inhibitor to enter the clinic with **IC_{50}** of 3.3 nM/2.8 nM in cell-free assays.

Purity: 99.88%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 1 mg, 5 mg

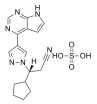


Ruxolitinib sulfate

(INCB018424 sulfate) Cat. No.: HY-50859

Bioactivity: Ruxolitinib sulfate is the first potent, selective **JAK1/2** inhibitor to enter the clinic with **IC_{50}**s of 3.3 nM/2.8 nM, and has > 130-fold selectivity for JAK1/2 versus JAK3.

Purity: >98%
Clinical Data: Launched
Size: 5 mg, 10 mg, 50 mg, 100 mg

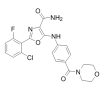


SAR-20347

Cat. No.: HY-100895

Bioactivity: SAR-20347 is an inhibitor of **TYK2**, **JAK1**, **JAK2** and **JAK3** with **IC_{50}**s of 0.6, 23, 26 and 41 nM, respectively.

Purity: 97.00%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

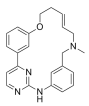


SB1317

(TG02) Cat. No.: HY-15166

Bioactivity: SB1317 is a potent inhibitor of **CDK2**, **JAK2**, and **FLT3** for the treatment of cancer, with **IC_{50}** of 13, 73, and 56 nM for CDK2, JAK2 and FLT3, respectively.

Purity: 99.96%
Clinical Data: Phase 2
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg, 100 mg

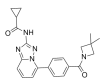


Solcitinib

(GSK-2586184; GLPG-0778) Cat. No.: HY-16755

Bioactivity: Solcitinib is an orally active, competitive, potent, selective **JAK1** inhibitor, with an **IC_{50}** of 9.8 nM, and 11-, 55- and 23-fold selectivity over JAK2, JAK3 and TYK2, respectively; Solcitinib is used in the research of moderate-to-severe plaque-type psoriasis.

Purity: 99.42%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg, 100 mg, 200 mg

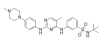


TG101209

Cat. No.: HY-10410

Bioactivity: TG101209 is a selective **JAK2** inhibitor with **IC_{50}** of 6 nM, less potent to **Flt3** and **RET** with **IC_{50}** of 25 nM and 17 nM, appr 30-fold selective for JAK2 than JAK3, and sensitive to JAK2V617F and MPLW515L/K mutations.

Purity: 98.94%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg, 100 mg

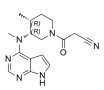


Tofacitinib

(Tasocitinib; CP-690550) Cat. No.: HY-40354

Bioactivity: Tofacitinib is a **JAK3/2/1** inhibitor with **IC_{50}**s of 1, 20, and 112 nM, respectively.

Purity: 99.96%
Clinical Data: Launched
Size: 10mM x 1mL in DMSO, 10 mg, 50 mg, 100 mg, 200 mg, 500 mg

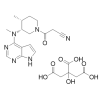


Tofacitinib citrate

(Tasocitinib citrate; CP-690550 citrate) Cat. No.: HY-40354A

Bioactivity: Tofacitinib citrate is a **JAK1/2/3** inhibitor with **IC_{50}**s of 1, 20, and 112 nM, respectively.

Purity: 99.92%
Clinical Data: Launched
Size: 10mM x 1mL in DMSO, 10 mg, 50 mg, 100 mg, 200 mg, 500 mg

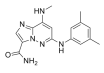


TyK2-IN-2

Cat. No.: HY-101762

Bioactivity: TyK2-IN-2 is an inhibitor of **TYK2**, used for treatment of inflammatory and autoimmune diseases.

Purity: 99.41%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO,
1 mg, 5 mg, 10 mg, 50 mg, 100 mg



Tyk2-IN-3

Cat. No.: HY-18709

Bioactivity: Tyk2-IN-3 is a **Tyk2 pseudokinase** inhibitor, with an **IC_{50}** of 485 nM.

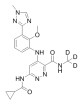
Purity: >98%
Clinical Data: No Development Reported
Size: 250 mg, 500 mg

Tyk2-IN-4

Cat. No.: HY-117287

Bioactivity: Tyk2-IN-4 is a selective, potent, allosteric inhibitor of tyrosine kinase 2 (**Tyk2**).

Purity: 99.76%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO,
5 mg, 10 mg, 25 mg, 50 mg, 100 mg

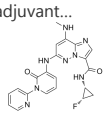


Tyk2-IN-5

Cat. No.: HY-111745

Bioactivity: Tyk2-IN-5 (compound 6) is a highly potent, selective and orally active **Tyk2** inhibitor and targets the JH2 domain, with a **K_i** of 0.086 nM for Tyk2 JH2 and an **IC_{50}** of 25 nM for IFNα.
Highly effective in inhibiting IFNγ production in a rat pharmacodynamics model and fully efficacious in a rat adjuvant...

Purity: >98%
Clinical Data: No Development Reported
Size: 500 mg, 250 mg, 100 mg



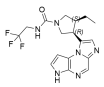
Upadacitinib

(ABT-494)

Cat. No.: HY-19569

Bioactivity: Upadacitinib (ABT-494) is a potent and selective Janus kinase (**JAK**) 1 inhibitor with an **IC_{50}** of 43 nM, being developed for the treatment of several autoimmune disorders.

Purity: 99.96%
Clinical Data: Phase 3
Size: 10mM x 1mL in DMSO,
1 mg, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg, 200 mg, 500 mg, 1 g, 5 g, 10 g

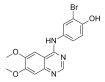


WHI-P154

Cat. No.: HY-13895

Bioactivity: WHI-P154 is a potent **EGFR** inhibitor, and also modestly blocks **JAK3**, with **IC_{50}**s of 4 nM and 1.8 μM, respectively.

Purity: 98.60%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO,
10 mg, 50 mg

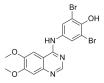


WHI-P97

Cat. No.: HY-11067

Bioactivity: WHI-P97 is a rationally designed potent inhibitor of JAK-3. IC50 value: Target: JAK3 Treatment of mast cells with WHI-P97 inhibited the translocation of 5-lipoxygenase (5-LO) from the nucleoplasm to the nuclear membrane and consequently 5-LO-dependent leukotriene (LT) synthesis after IgE...

Purity: 99.48%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO,
2 mg, 5 mg, 10 mg, 50 mg, 100 mg

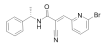


WP1066

Cat. No.: HY-15312

Bioactivity: WP1066 is an inhibitor of **JAK2** and **STAT3**, and also shows effect on STAT5 and ERK1/2, without affecting JAK1 and JAK3.

Purity: 99.67%
Clinical Data: Phase 1
Size: 10mM x 1mL in DMSO,
10 mg, 50 mg

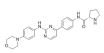


XL019

Cat. No.: HY-13775

Bioactivity: XL019 is a potent and selective JAK2 inhibitor with IC50 of 2.2 nM, 100 fold selectivity over JAK1; shows good biochemical and cellular potency against JAK2 with good selectivity against the Janus Kinase family as well as a broad kinase panel. IC50 Value: 2.2 nM (JAK2); 214.2 nM (JAK3) [1] XL019...

Purity: 98.0%
Clinical Data: Phase 1
Size: 10mM x 1mL in DMSO,
5 mg, 10 mg, 50 mg, 100 mg

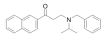


ZM39923

Cat. No.: HY-12589A

Bioactivity: ZM39923 is a **JAK3** inhibitor, with a **pIC_{50}** of 7.1; ZM39923 also potently inhibits tissue transglutaminase (**TGM2**) with an **IC_{50}** of 10 nM.

Purity: >98%
Clinical Data: No Development Reported
Size: 10 mg, 50 mg



ZM39923 hydrochloride

Cat. No.: HY-12589

Bioactivity: ZM39923 hydrochloride is a **JAK3** inhibitor, with a **pIC_{50}** of 7.1; ZM39923 hydrochloride also potently inhibits tissue transglutaminase (**TGM2**) with an **IC_{50}** of 10 nM.

Purity: 98.0%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 10 mg, 50 mg