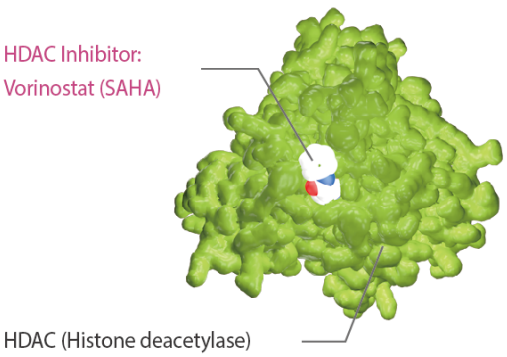
Sirtuin



Sirtuin (Sir2 proteins) are a class of proteins that possess either mono-ADP-ribosyltransferase, or deacylase activity, including deacetylase, desuccinylase, demalonylase, demyristoylase and depalmitoylase activity. Sirtuins regulate important biological pathways in bacteria, archaeaand eukaryotes. Sirtuins have been implicated in influencing a wide range of cellular processes like aging, transcription, apoptosis, inflammation and stress resistance, as well as energy efficiency and alertness during low-calorie situations. Sirtuins can also control circadian clocks and mitochondrial biogenesis.

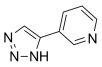
Sirtuin Inhibitors & Modulators

3-TYP

Cat. No.: HY-108331

Bioactivity: 3-TYP is a selective **SIRT3** inhibitor, with an IC_{50} of 16 nM, more potent over SIRT1 (IC_{50}=88 nM), SIRT2 (IC_{50}=92 nM).

Purity: 99.87%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg, 100 mg

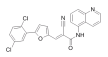


AGK2

Cat. No.: HY-100578

Bioactivity: AGK2 is a selective **SIRT2** inhibitor with IC_{50} of 3.5 μM. AGK2 can also inhibit **SIRT1** and **SIRT3** with IC_{50} of 30 and 91 μM, respectively.

Purity: 98.66%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 25 mg

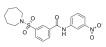


AK-1

Cat. No.: HY-101465

Bioactivity: AK-1 is a potent, specific and cell-permeable **SIRT2** inhibitor, with an IC_{50} of 12.5 μM.

Purity: 98.0%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 25 mg, 50 mg

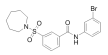


AK-7

Cat. No.: HY-16691

Bioactivity: AK-7 is a selective cell- and brain-permeable **SIRT2** inhibitor, with an IC_{50} of 15.5 μM.

Purity: 99.59%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 10 mg, 50 mg, 100 mg

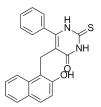


Cambinol

Cat. No.: HY-100732

Bioactivity: Cambinol is a **SIRT1** and **SIRT2** inhibitor with IC_{50} values of 56 and 59 μM, respectively.

Purity: 99.70%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

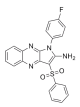


CAY10602

Cat. No.: HY-104073

Bioactivity: CAY10602 is a **SIRT1** activator.

Purity: 98.56%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg, 100 mg



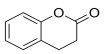
Dihydrocoumarin

(Hydrocoumarin; Chroman-2-one)

Cat. No.: HY-N1926

Bioactivity: Dihydrocoumarin is a compound found in Melilotus officinalis. Dihydrocoumarin is a **yeast Sir2p** inhibitor. Dihydrocoumarin also inhibits **human SIRT1** and **SIRT2** with IC_{50}s of 208 μM and 295 μM, respectively [1].

Purity: 99.09%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 100 mg

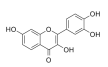


Fisetin

Cat. No.: HY-N0182

Bioactivity: Fisetin is a natural flavonol found in many fruits and vegetables with various benefits, such as antioxidant, anticancer, neuroprotection effects.

Purity: 98.02%
Clinical Data: Phase 2
Size: 10mM x 1mL in DMSO, 100 mg, 500 mg, 1 g



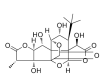
Ginkgolide C

(BN-52022; Ginkgolide-C)

Cat. No.: HY-N0785

Bioactivity: Ginkgolide C is a flavone isolated from Ginkgo biloba leaves, possessing multiple biological functions, such as decreasing platelet aggregation and ameliorating Alzheimer disease.

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



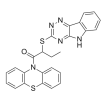
Inauhzin

(INZ)

Cat. No.: HY-15869

Bioactivity: Inauhzin is a dual **SirT1/IMPDH2** inhibitor, and acts as an activator **p53**, used in the research of cancer.

Purity: 98.91%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg, 100 mg



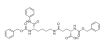
Tel: 609-228-6898 Fax: 609-228-5909 Email: sales@MedChemExpress.com

MC3482

Cat. No.: HY-112587

Bioactivity: MC3482 is a specific sirtuin5 (**SIRT5**) inhibitor.

Purity: 99.22%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO,
5 mg, 10 mg

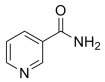


Nicotinamide

(Niacinamide; Nicotinic acid amide; Vitamin B3) Cat. No.: HY-B0150

Bioactivity: Nicotinamide is a form of vitamin B3 that plays essential roles in cell physiology through facilitating NAD+ redox homeostasis and providing NAD+ as a substrate to a class of enzymes that catalyze non-redox reactions. Nicotinamide is an inhibitor of **SIRT1**.

Purity: 98.0%
Clinical Data: Launched
Size: 10mM x 1mL in DMSO,
1 g, 5 g

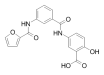


OSS_128167

Cat. No.: HY-107454

Bioactivity: OSS_128167 is a selective **SIRT6** inhibitor with **IC_{50}**s of 89, 1578 and 751 μM for **SIRT6**, **SIRT1** and **SIRT2**, respectively.

Purity: 98.22%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO,
5 mg, 10 mg, 50 mg, 100 mg

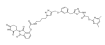


PROTAC Sirt2 Degrader-1

Cat. No.: HY-103636

Bioactivity: PROTAC Sirt2 Degrader-1 is a SirReal-based **PROTAC**, acts as a **Sirt2** degrader, composed of a highly potent and isotype-selective **Sirt2** inhibitor, a linker, and a bona fide cereblon ligand for E3 ubiquitin ligase. PROTAC Sirt2 Degrader-1 shows an **IC_{50}** of 0.25 μM for Sirt2, with no effect...

Purity: 98.76%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO,
5 mg, 10 mg

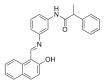


Salermide

Cat. No.: HY-101073

Bioactivity: Salermide is an inhibitor of **Sirt1** and **Sirt2**; can cause strong cancer-specific apoptotic cell death.

Purity: 98.0%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO,
5 mg, 10 mg, 25 mg, 50 mg, 100 mg

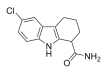


Selisistat

(EX-527) Cat. No.: HY-15452

Bioactivity: Selisistat (EX-527) is a potent and selective **SIRT1** inhibitor with **IC_{50}** of 98 nM.

Purity: 99.82%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO,
5 mg, 10 mg, 25 mg



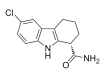
Selisistat S-enantiomer

(EX-527 (S-enantiomer)) Cat. No.: HY-15452A

Bioactivity: Selisistat S-enantiomer (EX-527 S-enantiomer) is the S-enantiomer of Selisistat, with an **IC_{50}** of 123 nM for SIRT1.

Selisistat S-enantiomer is much more potent than Selisistat R-enantiomer.

Purity: 98.50%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO,
5 mg, 10 mg

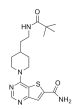


SIRT-IN-1

Cat. No.: HY-16615

Bioactivity: SIRT-IN-1 is a potent inhibitor of **SIRT1/2/3**, with **IC_{50}**s of 15, 10, 33 μM, respectively.

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

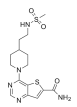


SIRT-IN-2

Cat. No.: HY-16616

Bioactivity: SIRT-IN-2 is a potent inhibitor of **SIRT1/2/3**, with **IC_{50}**s of 4, 4, 7 μM, respectively.

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

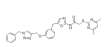


Sirt2-IN-1

Cat. No.: HY-112427

Bioactivity: Sirt2-IN-1 (Compound 9) is a **sirtuin 2** (**Sirt2**) inhibitor with an **IC_{50}** of 163 nM [1].

Purity: >98%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO,
5 mg, 10 mg, 50 mg

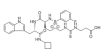


SIRT5 inhibitor 1

Cat. No.: HY-112634

Bioactivity: SIRT5 inhibitor 1 is a potent Human **Sirtuin 5** deacylase inhibitor, with an **IC_{50}** of 0.11 μM.

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

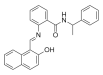


Sirtinol

Cat. No.: HY-13515

Bioactivity: Sirtinol is a **sirtuin** inhibitor, with **IC_{50}**s of 48 μM, 57.7 μM and 131 μM for ySir2, hSIRT2 and hSIRT2, respectively.

Purity: 98.0%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg, 100 mg

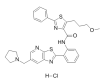


Sirtuin modulator 1

Cat. No.: HY-19758A

Bioactivity: Sirtuin modulator 1 is a modulator of **SIRTI**, a homolog of **SIRT3**, with $EC_{1.5}$ of < 1 μM, extracted from patent WO 2010071853 A1, Compound No.4.

Purity: 99.44%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 1 mg, 5 mg, 10 mg, 50 mg, 100 mg

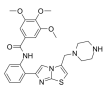


SRT 1460

Cat. No.: HY-124037

Bioactivity: SRT 1460, a potent **Sirtuin-1 (SIRT1)** activator with an **$EC_{1.5}$** value of 2.9 μM, shows good selectivity for activation of SIRT1 versus SIRT2 and SIRT3 (EC1.5 > 300 μM), and is more potent than Resveratrol and the closest sirtuin homolog...

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

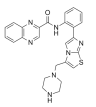


SRT 1720

Cat. No.: HY-10532

Bioactivity: SRT 1720 is a selective activator of human **SIRT1** with an **$EC_{1.5}$** of 0.16 μM, and shows less potent activities agaiinst SIRT2 and SIRT3 with $EC_{1.5}$s of 37 μM and > 300 μM, respectively.

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

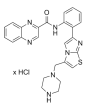


SRT 1720 Hydrochloride

Cat. No.: HY-15145

Bioactivity: SRT 1720 Hydrochloride is a selective activator of **SIRT1** with an **$EC_{1.5}$** of 0.16 μM, and shows less potent activities on SIRT2 and SIRT3 with $EC_{1.5}$s of 37 μM and 300 μM, respectively.

Purity: 99.92%
Clinical Data: No Development Reported
Size: 5 mg, 10 mg, 50 mg, 100 mg

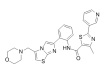


SRT 2104

Cat. No.: HY-15262

Bioactivity: SRT 2104 is a first-in-class, highly selective and brain-permeable activator of the NAD^+ dependent deacetylase **Sirt1**, increases Sirt1 protein, but shows no effect on Sirt1 mRNA. Used in the research of diabetes mellitus ...

Purity: 98.87%
Clinical Data: No Development Reported
Size: 5 mg, 10 mg, 50 mg, 100 mg, 200 mg, 500 mg, 1 g

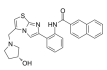


SRT 2183

Cat. No.: HY-19759

Bioactivity: SRT 2183 is a selective **Sirtuin-1 (SIRT1)** activator with an **$EC_{1.5}$** value of 0.36 μM [1]. SRT 2183 induces growth arrest and apoptosis, concomitant with deacetylation of STAT3 and NF-κB, and reduction of c-Myc protein levels [2].

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

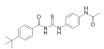


Tenovin-1

Cat. No.: HY-13423

Bioactivity: Tenovin-1 is an inhibitor of **sirtuin 1** and **sirtuin 2**, an activator of **p53** and may have potential in the management of cancer.

Purity: 99.39%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 10 mg, 50 mg, 100 mg

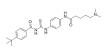


Tenovin-6

Cat. No.: HY-15510

Bioactivity: Tenovin-6 is an inhibitor of **SIRT1** and **SIRT2**, slightly inhibits **HDAC8**, and is also a potent activator of **p53**, with **IC_{50}**s of 21 μM, 10 μM, and 67 μM for SirT1, SirT2, and SirT3, respectively.

Purity: 98.24%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 2 mg, 5 mg, 10 mg, 50 mg, 100 mg

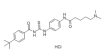


Tenovin-6 Hydrochloride

Cat. No.: HY-15510B

Bioactivity: Tenovin-6 Hydrochloride is an inhibitor of **SIRT1** and **SIRT2**, slightly inhibits **HDAC8**, and is also a potent activator of **p53**, with **IC_{50}**s of 21 μM, 10 μM, and 67 μM for SirT1, SirT2, and SirT3, respectively.

Purity: 98.0%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO,
2 mg, 5 mg, 10 mg, 50 mg, 100 mg

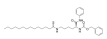


Thiomyristoyl

Cat. No.: HY-101278

Bioactivity: Thiomyristoyl is a potent and specific **SIRT2** inhibitor with an **IC_{50}** of 28 nM.

Purity: 98.84%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO,
1 mg, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg



UBCS039

Cat. No.: HY-115453

Bioactivity: UBCS039 is the first synthetic, specific **Sirtuin 6 (SIRT6)** activator, inducing autophagy in human tumor cells, with an **EC_{50}** of 38 μM [1].

Purity: 98.55%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO,
5 mg, 10 mg, 25 mg, 50 mg, 100 mg