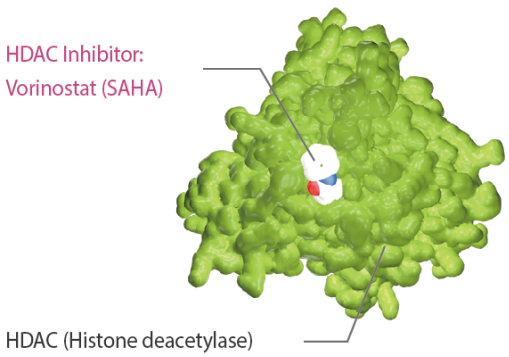
DYRK

Dual specificity tyrosine phosphorylation regulated kinase;Dual specificity tyrosine regulated kinase



Mammalian DYRKs are a subfamily of mitogen-activated protein kinase-related protein kinases and are originally discovered on the basis of homology to the Saccharomyces cerevisiae Yak1 and Drosophila mini-brain kinases. DYRKs possess Ser/Thr phosphorylation activity as well as autophosphorylation activity on Tyr residue(s).

Two isoforms of DYRK, DYRK1A and DYRK1B, co-immunoprecipitate with HAN11 when coexpressed in COS cells indicating that the proteins interact in mammalian cells. Co-expression of DYRK1A, DYRK1B, or DYRK2 with a series of glycogen synthase mutants with Ser/Ala substitutions at the phosphorylation sites in COS cells revealed that protein kinases cause phosphorylation of site 3a in glycogen synthase. Control of glycogen synthase by DYRK represents a novel mechanism, and a potentially novel pathway, for the regulation of glycogen synthesis.

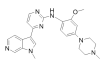
DYRK Inhibitors & Modulators

AZ191

Cat. No.: HY-12277

Bioactivity: AZ191 is a potent inhibitor that selectively inhibits **DYRK1B** with **IC_{50}** of 17 nM [1].

Purity: 99.63%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg, 100 mg

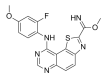


EHT 5372

Cat. No.: HY-111380

Bioactivity: EHT 5372 is a strong inhibitor of **DYRK's** family kinases, with **IC_{50}s** of 0.22, 0.28 nM for DYRK1A and DYRK1B, respectively.

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



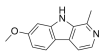
Harmine

(Telepathine)

Cat. No.: HY-N0737A

Bioactivity: Harmine is a natural dual-specificity tyrosine phosphorylation-regulated kinase (**(DYRK)**) inhibitor with anticancer and anti-inflammatory activities.

Purity: 99.78%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 500 mg

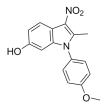


ID-8

Cat. No.: HY-15838

Bioactivity: ID-8 is a DYRK inhibitor, and sustains embryonic stem cell self-renewal in long-term culture.

Purity: 99.71%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg



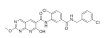
Mirk-IN-1

(Dyrk1B/A-IN-1)

Cat. No.: HY-12838

Bioactivity: Mirk-IN-1 is a potent inhibitor of Dyrk1B(Mirk kianse) and Dyrk1A with IC50 of 68±48 nM and 22±8 nM respectively. IC50 value: 68±48/22±8 nM (Dyrk1B/Dyrk1A) [1] Target: Dyrk inhibitor Mirk-IN-1 had an EC50 of 1.9 ±0.2 mmol/L on SW620 cells. At a much higher concentration of 10 mmol/L in a kinase...

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

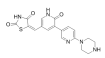


Protein kinase inhibitors 1

Cat. No.: HY-U00439

Bioactivity: Protein kinase inhibitors 1 is a novel inhibitor of **HIPK2** with an **IC_{50}** of 74 nM and **K_d** of 9.5 nM.

Purity: 99.0%
Clinical Data: No Development Reported
Size: 5 mg, 10 mg, 25 mg

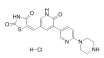


Protein kinase inhibitors 1 hydrochloride

Cat. No.: HY-U00439A

Bioactivity: Protein kinase inhibitors 1 hydrochloride is a potent **HIPK2** inhibitor, with **IC_{50}**s of 136 and 74 nM for HIPK1 and HIPK2, and a **K_d** of 9.5 nM for HIPK2.

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



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