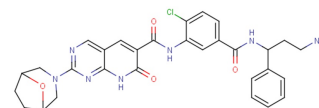


DYRKs-IN-1

Chemical Properties

CAS No.: 1387090-01-8
Formula: C₃₀H₃₀ClN₇O₄
Molecular Weight: 588.06
Appearance: N/A
Storage: 0-4°C for short term (days to weeks), or -20°C for long term (months).

**Biological Description**

Description	DYRKs-IN-1 has antitumor activity. DYRKs-IN-1 is a potent DYRKs (Dual-specificity tyrosine-phosphorylation-regulated kinases) inhibitor with IC ₅₀ s of 9 nM and 5 nM for DYRK1B and DYRK1A, respectively.
Targets(IC ₅₀)	DYRK1B: 9 nM DYRK1A: 5 nM
In vitro	Dyrks-in-1 enhanced the efficacy of human colon cancer cell line SW 620 with EC ₅₀ at 27 nM.

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.701 mL	8.503 mL	17.005 mL
5 mM	0.34 mL	1.701 mL	3.401 mL
10 mM	0.17 mL	0.85 mL	1.701 mL
50 mM	0.034 mL	0.17 mL	0.34 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Kevin Anderson, et al. Pyrido pyrimidines. US20120184542A1
2. Anderson K, et al. Pyrido[2,3-d]pyrimidines: discovery and preliminary SAR of a novel series of DYRK1B and DYRK1A inhibitors. Bioorg Med Chem Lett. 2013 Dec 15;23(24):6610-5.

Inhibitors · Natural Compounds · Compound Libraries

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