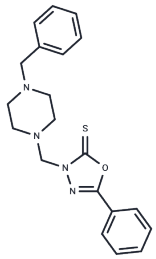
Data Sheet (Cat.No.T73575)

TargetMol

SD-6

Chemical Properties



CAS No. : 744206-31-3

Formula: C20H22N4OS

Molecular Weight: 366.48

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	SD-6 is an effective dual Jak2 and Aurora A kinase inhibitor. It inhibits tumor cell proliferation by blocking STAT3 phosphorylation and inducing mitotic arrest, used for hematological malignancy research.
Targets(IC50)	Aurora Kinase,JAK
In vitro	SD-6 (5-80 uM) effectively inhibits cholinesterase activity and provides neuroprotection in SH-SY5Y cells [1].
In vivo	Oral SD-6 (2.5-10 mg/kg) significantly improves cognitive/memory deficits in rats with no toxicity at 500 mg/kg [1].

Solubility Information

Solubility	DMSO: 20 mg/mL (54.57 mM),Sonication is recommmended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7287 mL	13.6433 mL	27.2866 mL
5 mM	0.5457 mL	2.7287 mL	5.4573 mL
10 mM	0.2729 mL	1.3643 mL	2.7287 mL
50 mM	0.0546 mL	0.2729 mL	0.5457 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Ni H, et al. 2-BFI Provides Neuroprotection Against Inflammation and Necroptosis in a Rat Model of Traumatic Brain Injury. Front Neurosci. 2019 Jun 26;13:674.

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