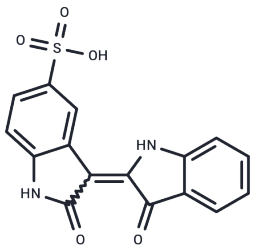
Data Sheet (Cat.No.T11653)

TargetMol

Indirubin-5-sulfonate

Chemical Properties



CAS No. : 244021-67-8

Formula: C16H10N2O5S

Molecular Weight: 342.33

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	Indirubin-5-sulfonate shows inhibitory activity against GSK-3β. Indirubin-5-sulfonate is a cyclin-dependent kinase (CDK) inhibitor, with IC50 values of 55 nM, 35 nM, 150 nM, 300 nM and 65 nM for CDK1/cyclin B, CDK2/cyclin A, CDK2/cyclin E, CDK4/cyclin D1, and CDK5/p35, respectively.
Targets(IC50)	Others,CDK,GSK-3

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9212 mL	14.6058 mL	29.2116 mL
5 mM	0.5842 mL	2.9212 mL	5.8423 mL
10 mM	0.2921 mL	1.4606 mL	2.9212 mL
50 mM	0.0584 mL	0.2921 mL	0.5842 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

Hoessel R, et al. Indirubin, the active constituent of a Chinese antileukaemia medicine, inhibits cyclin-dependent kinases. Nat Cell Biol. 1999 May;1(1):60-7.

Leclerc S, et al. Indirubins inhibit glycogen synthase kinase-3 beta and CDK5/p25, two protein kinases involved in abnormal tau phosphorylation in Alzheimer's disease. A property common to most cyclin-dependent kinase inhibitors? J Biol Chem. 2001 Jan 5;276(1):251-60.

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