
Product Data Sheet

Product Name: Indirubin-3'-monoxime-5-sulphonic acid

Cat. No.: GC36312

Chemical Properties

Cas. No. 331467-05-1

SMILES O=S(C1=CC2=C(NC(/C2=C3NC4=C(C=CC=C4)C/3=N\O)=O)C=C1)(O)=OFormula $C_{16}H_{11}N_3O_5S$ M.Wt 357.34

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

Indirubin-3'-monoxime-5-sulphonic acid is a potent and selective inhibitor of CDK1, CDK5, and GSK-3 β with IC₅₀s of 5 nM, 7 nM, and 80 nM, respectively[1]. CDK1|5 nM (IC₅₀)|CDK5|7 nM (IC₅₀)|GSK-3 β |80 nM (IC₅₀)

[1]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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