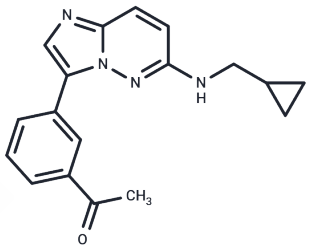
Data Sheet (Cat.No.T27704)

TargetMol

K00135

Chemical Properties



CAS No. : 869650-21-5

Formula: C18H18N4O

Molecular Weight: 306.36

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	K00135 (IMIDAZOPYRIDAZIN 1) is a selective inhibitor of Pim kinases and can be used in studies about gastric cancer and antileukemic therapeutics.
Targets(IC50)	Pim
In vitro	K00135 dose-dependently impairs the survival of murine Ba/F3 cells that have been rendered cytokine independent by overexpression of human PIMs. K00135 impairs survival and clonogenic growth of a panel of human acute leukemia cells. Exposure of K00135 significantly suppresses in vitro growth of leukemic blasts from five acute myelogenous leukemia patients but not of normal umbilical cord blood mononuclear cells[3].

Solubility Information

Solubility	DMSO: 4.4 mg/mL (14.36 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2641 mL	16.3207 mL	32.6413 mL
5 mM	0.6528 mL	3.2641 mL	6.5283 mL
10 mM	0.3264 mL	1.6321 mL	3.2641 mL
50 mM	0.0653 mL	0.3264 mL	0.6528 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

Darby RA, et al. Overcoming ABCG2-mediated drug resistance with imidazo-[1,2-b]-pyridazine-based Pim1 kinase inhibitors. Cancer Chemother Pharmacol. 2015 Oct;76(4):853-64.
Yan B, et al. Clinical and therapeutic relevance of PIM1 kinase in gastric cancer. Gastric Cancer. 2012 Apr;15(2): 188-97.
Pogacic V, et al. Structural analysis identifies imidazo[1,2-b]pyridazines as PIM kinase inhibitors with in vitro antileukemic activity. Cancer Res. 2007 Jul 15;67(14):6916-24.
Taparowsky EJ, Gerbi SA. Structure of 1.71 lb gm/cm(3) bovine satellite DNA: evolutionary relationship to satellite I. Nucleic Acids Res. 1982 Sep 25;10(18):5503-15.