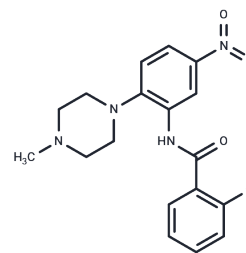


WDR5-0102

Chemical Properties

CAS No. : 824960-50-1
 Formula: C₁₈H₁₉ClN₄O₃
 Molecular Weight: 374.82
 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	WDR5-0102 is a compound that inhibits the WDR5-MLL1 interface (K _d = 7 μM, K _d = 4 μM), selectively reducing MLL1 HMT activity without affecting the human H3K4 methyltransferase SETD7 or other HMTs, including G9a, EHMT1, SUV39H2, SETD8, PRMT3, and PRMT5.
Targets(IC50)	Histone Methyltransferase,JAK
In vitro	Bioassay-guided fractionation resulted in the isolation of Mauritianin as a new topoisomerase I inhibitor.[1] After 14 weeks, Mauritianin antagonized the flavonol glycosides on cell-mediated immunosuppression in the two-stage carcinogenesis in terms of initiation.[3]

Solubility Information

Solubility	DMSO: 55 mg/mL (146.74 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (2.67 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6679 mL	13.3397 mL	26.6795 mL
5 mM	0.5336 mL	2.6679 mL	5.3359 mL
10 mM	0.2668 mL	1.334 mL	2.6679 mL
50 mM	0.0534 mL	0.2668 mL	0.5336 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

Lawrence HR, et al. Inhibitors of Src homology-2 domain containing protein tyrosine phosphatase-2 (Shp2) based on oxindole scaffolds. *J Med Chem.* 2008;51(16):4948-4956.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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