

XY1

Chemical Properties

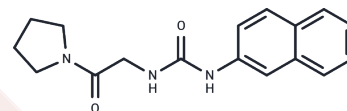
CAS No. : 1624117-53-8

Formula: C17H19N3O2

Molecular Weight: 297.35

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	XY1 is a close analogue of SGC707 (a potent, selective, and non-competitive inhibitor of PRMT3 with IC50 of 31 nM), intended as a negative control for SGC707 in studies involving PRMT3 action.
Targets(IC50)	Histone Methyltransferase

Solubility Information

Solubility	DMSO: 7.5 mg/mL (25.22 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 (3.36 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	3.363 mL	16.8152 mL	33.6304 mL
5 mM	0.6726 mL	3.363 mL	6.7261 mL
10 mM	0.3363 mL	1.6815 mL	3.363 mL
50 mM	0.0673 mL	0.3363 mL	0.6726 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

Børsting C, Tomas C, Morling N. SNP typing of the reference materials SRM 2391b 1-10, K562, XY1, XX74, and 007 with the SNPforID multiplex[J]. Forensic Sci Int Genet. 2011 Jun;5(3):e81-2.

Kaniskan, H. ümit, Szewczyk M M , Yu Z , et al. A Potent, Selective and Cell-Active Allosteric Inhibitor of Protein Arginine Methyltransferase³ (PRMT3)[J]. Angewandte Chemie, 2015, 127(17):5255-5259.

Sontakke SD1, Kandukuri LR, Umapathy G, et al. The 34,XY1,der(13) chromosome constitution with loss of Y2 is associated with unilateral testicular hypoplasia in the endangered Indian blackbuck antelope (Antelope cervicapra). Sex Dev. 2012;6(5):240-6.

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