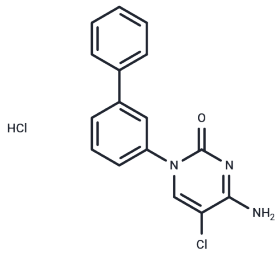
Data Sheet (Cat.No.T61012)

TargetMol

Bobcat339 hydrochloride

Chemical Properties



CAS No. :	2436747-44-1
Formula:	C16H13Cl2N3O
Molecular Weight:	334.2
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	Bobcat339 hydrochloride is a selective 10 11 translocation (TET) dioxygenase inhibitor that inhibits TET1 and TET2.Bobcat339 hydrochloride induces TET3 protein degradation and also stimulates the expression of AGRP, NPY, and VGAT in a TET3-dependent manner in mouse and human neuronal cells. VGAT expression, which can be used to study transient anorexia nervosa.
Targets(IC50)	DNA Methyltransferase
In vitro	Bobcat339 hydrochloride is a potent and selective cytosine-based TET enzyme inhibitor, which significantly reduced the overall intracellular level of 5hmC by inhibiting TET enzyme activity in HT-22 cells at a concentration of 10 μM for 24 h. The IC50 of Bobcat339 hydrochloride for TET1 and TET2 were 33 μM and 73 μM, respectively. [1]

Solubility Information

Solubility	DMSO: 100 mg/mL (299.22 mM),Sonication is recommended. H2O: < 1 mg/mL (insoluble) (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (11.97 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9922 mL	14.9611 mL	29.9222 mL
5 mM	0.5984 mL	2.9922 mL	5.9844 mL
10 mM	0.2992 mL	1.4961 mL	2.9922 mL
50 mM	0.0598 mL	0.2992 mL	0.5984 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

Chua GNL, et al. Cytosine-Based TET Enzyme Inhibitors. ACS Med Chem Lett. 2019 Jan 31;10(2):180-185.