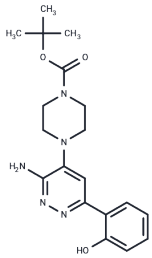
Data Sheet (Cat.No.T9568)

TargetMol

SGC-SMARCA-BRDVIII

Chemical Properties



CAS No. : 1997319-84-2

Formula: C19H25N5O3

Molecular Weight: 371.43

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	SGC-SMARCA-BRDVIII is a potent and selective inhibitor of SMARCA2, SMARCA4, PB1(2), PB1(3), and PB1(5) with Kds of 35 nM, 36 nM, 3.7 μM, 2.0 μM, and 13 nM, respectively.
Targets(IC50)	Epigenetic Reader Domain
In vitro	SGC-SMARCA-BRDVIII blocks adipogenesis in 3T3-L1 murine fibroblasts[1].

Solubility Information

Solubility	DMSO: 12 mg/mL (32.31 mM),Sonication is recommended. Ethanol: 5 mg/mL (13.46 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: 2 mg/mL (5.38 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	2.6923 mL	13.4615 mL	26.923 mL
5 mM	0.5385 mL	2.6923 mL	5.3846 mL
10 mM	0.2692 mL	1.3461 mL	2.6923 mL
50 mM	0.0538 mL	0.2692 mL	0.5385 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

Wanior M, et, al. Pan-SMARCA/PB1 Bromodomain Inhibitors and Their Role in Regulating Adipogenesis. J Med Chem. 2020 Dec 10;63(23):14680-14699.

Mélin L, et, al. Design and Synthesis of LM146, a Potent Inhibitor of PB1 with an Improved Selectivity Profile over SMARCA2. ACS Omega. 2021 Aug 9;6(33):21327-21338.