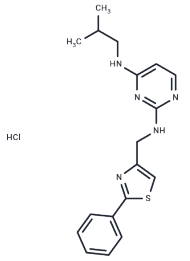
Data Sheet (Cat.No.T5170)

TargetMol

KHS101 hydrochloride

Chemical Properties



CAS No. : 1784282-12-7

Formula: C18H22ClN5S

Molecular Weight: 375.92

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	KHS101 is a TACC3 inhibitor and can selectively induce a neuronal differentiation phenotype.
Targets(IC50)	FGFR,Microtubule Associated

Solubility Information

Solubility	Ethanol: 50 mg/mL (133.01 mM),Sonication is recommended. DMSO: 50 mg/mL (133.01 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 (5.32 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	2.6601 mL	13.3007 mL	26.6014 mL
5 mM	0.532 mL	2.6601 mL	5.3203 mL
10 mM	0.266 mL	1.3301 mL	2.6601 mL
50 mM	0.0532 mL	0.266 mL	0.532 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

Wurdak H, et al. A small molecule accelerates neuronal differentiation in the adult rat. Proc Natl Acad Sci U S A. 2010 Sep 21;107(38):16542-7.
Zhou DS, et al. TACC3 promotes stemness and is a potential therapeutic target in hepatocellular carcinoma. Oncotarget. 2015 Sep 15;6(27):24163-77.
Polson ES, et al. KHS101 disrupts energy metabolism in human glioblastoma cells and reduces tumor growth in mice. Sci Transl Med. 2018 Aug 15;10(454). pii: eaar2718.