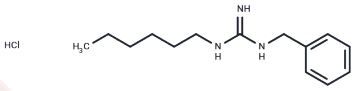
Data Sheet (Cat.No.T8494)

TargetMol

NS-3-008 hydrochloride

Chemical Properties



CAS No. : 1172854-54-4

Formula: C14H24ClN3

Molecular Weight: 269.81

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	NS-3-008 hydrochloride (NS-3-008 HCl) is a transcriptional G0/G1 switch 2 (G0s2) inhibitor(IC50 of 2.25 μM).
Targets(IC50)	Apoptosis,Bcl-2 Family,Others
In vivo	Administration of NS-3-008 inhibited the expression of G0s2 in healthy mice liver.?In contrast, administration of NS-3-008 did not affect the MBP in wild-type sham and 5/6Nx mice.?NS-3-008 as a novel G0s2 inhibitor and showed that administration of this inhibitor ameliorated renal dysfunction in wild-type 5/6Nx mice.

Solubility Information

Solubility	DMSO: 120 mg/mL (444.76 mM),Sonication is recommended. H2O: 125 mg/mL (463.29 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: 4 mg/mL (14.83 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	3.7063 mL	18.5316 mL	37.0631 mL
5 mM	0.7413 mL	3.7063 mL	7.4126 mL
10 mM	0.3706 mL	1.8532 mL	3.7063 mL
50 mM	0.0741 mL	0.3706 mL	0.7413 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

Matsunaga N, et al. Inhibition of G0/G1 Switch 2 Ameliorates Renal Inflammation in Chronic Kidney Disease. EBioMedicine. 2016 Nov;13:262-273.