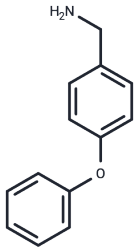
Data Sheet (Cat.No.T5938)

TargetMol

4-Phenoxybenzylamine

Chemical Properties



CAS No. : 107622-80-0

Formula: C13H13NO

Molecular Weight: 199.25

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	4-Phenoxybenzylamine inhibits the function of the NS3 protein by stabilizing an inactive conformation, with an IC50 of approximately 500 μM against HCV NS3/4a.
Targets(IC50)	HCV Protease
In vitro	A novel and highly conserved binding site at the interface of the protease and helicase domains of the Hepatitis C Virus (HCV) NS3 protein has been identified. Binding of 4-Phenoxybenzylamine to this allosteric site inhibits NS3 function by stabilizing an inactive conformation, introducing a new class of direct-acting antiviral agents.

Solubility Information

Solubility	DMSO: 30 mg/mL (150.56 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 (5.02 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	5.0188 mL	25.0941 mL	50.1882 mL
5 mM	1.0038 mL	5.0188 mL	10.0376 mL
10 mM	0.5019 mL	2.5094 mL	5.0188 mL
50 mM	0.1004 mL	0.5019 mL	1.0038 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

Saalau-Bethell S M , Woodhead A J , Chessari G , et al. Discovery of an allosteric mechanism for the regulation of HCV NS3 protein function[J]. Nature Chemical Biology, 2012, 8(11):2354.