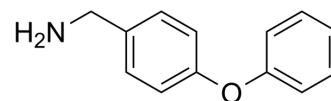


4-Phenoxybenzylamine

Cat. No.:	HY-18563
CAS No.:	107622-80-0
Molecular Formula:	C ₁₃ H ₁₃ NO
Molecular Weight:	199.25
Target:	HCV
Pathway:	Anti-infection
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 12.5 mg/mL (62.74 mM); Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				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
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 1.25 mg/mL (6.27 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 1.25 mg/mL (6.27 mM); Suspended solution; Need ultrasonic						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1.25 mg/mL (6.27 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description	4-Phenoxybenzylamine inhibits the function of the NS3 protein by stabilizing an inactive conformation with an IC ₅₀ of about 500 μM against FL NS3/4a.
IC ₅₀ & Target	IC50: 500 μM (FL NS3/4a) ^[1]
In Vitro	A highly conserved novel binding site located at the interface between the protease and helicase domains of the Hepatitis C Virus (HCV) NS3 protein is identified. 4-Phenoxybenzylamine binding at this allosteric site inhibits the function of the NS3 protein by stabilizing an inactive conformation and thus represents a new class of direct acting antiviral agents ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Saalau-Bethell SM, et al. Discovery of an allosteric mechanism for the regulation of HCV NS3 protein function. Nat Chem Biol. 2012 Nov;8(11):920-5.

Caution: Product has not been fully validated for medical applications. For research use only.

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