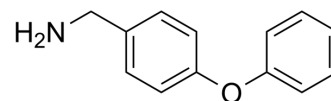


4-Phenoxybenzylamine

| | |
|--------------------|--|
| 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 | <div><div>Solvent</div><div>Concentration</div></div> | 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 | IC ₅₀ : 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.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA