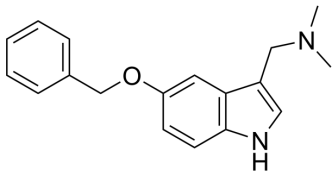
5-Benzyloxygramine

Cat. No.:	HY-138694
CAS No.:	1453-97-0
Molecular Formula:	$C_{18}H_{20}N_2O$
Molecular Weight:	280.36
Target:	Antibiotic
Pathway:	Anti-infection
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 250 mg/mL (891.71 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.5668 mL	17.8342 mL	35.6684 mL
	5 mM	0.7134 mL	3.5668 mL	7.1337 mL
	10 mM	0.3567 mL	1.7834 mL	3.5668 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: ≥ 2.08 mg/mL (7.42 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (7.42 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (7.42 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

5-Benzyloxygramine is a N protein PPI orthosteric stabilizer that exhibits both antiviral and N-NTD protein-stabilizing activities[1].

In Vitro

5-benzyloxygramine stabilizes the N-NTD dimers through simultaneous hydrophobic interactions with both partners, resulting in abnormal N protein oligomerization that was further confirmed in the cell[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Shan-Meng Lin, et al. Structure-Based Stabilization of Non-native Protein-Protein Interactions of Coronavirus Nucleocapsid Proteins in Antiviral Drug Design. J Med Chem. 2020 Mar 26;63(6):3131-3141.

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