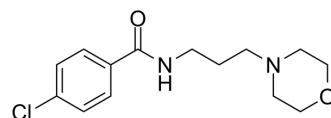


Eprobemide

Cat. No.:	HY-B1413		
CAS No.:	87940-60-1		
Molecular Formula:	C ₁₄ H ₁₉ ClN ₂ O ₂		
Molecular Weight:	282.77		
Target:	Monoamine Oxidase		
Pathway:	Neuronal Signaling		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 125 mg/mL (442.06 mM)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	3.5364 mL	17.6822 mL	35.3644 mL
	5 mM	0.7073 mL	3.5364 mL	7.0729 mL
	10 mM	0.3536 mL	1.7682 mL	3.5364 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
 Solubility: ≥ 2.08 mg/mL (7.36 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
 Solubility: ≥ 2.08 mg/mL (7.36 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 2.08 mg/mL (7.36 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Eprobemide is a non-competitive reversible inhibitor of monoamine oxidase A.

IC₅₀ & Target

Monoamine oxidase A^{[1][2]}

In Vitro

Eprobemide is a pharmaceutical drug that is used as an antidepressant. Eprobemide is a non-competitive reversible inhibitor of monoamine oxidase A that exhibits selective action on serotonin deamination^{[1][2]}.

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

REFERENCES

- [1]. Gol'dina OA, et al. The action of befol and its derivatives on monoamine oxidase of different origins. *Biull Eksp Biol Med*. 1991 Mar;111(3):279-80.
- [2]. Donskaya, et al. Antidepressant Befol Synthesized Via Interaction of 4-Chloro-N-(3-chloropropyl)benzamide with Morpholine. *Pharmaceutical Chemistry Journal*, 2004 Jun; 38(7): 381-384.
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Caution: Product has not been fully validated for medical applications. For research use only.

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