Beperidium iodide

Cat. No.: HY-100152

CAS No.: 86434-57-3

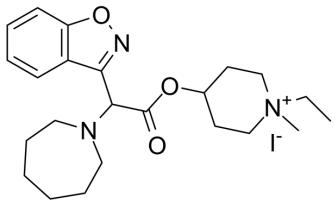
Molecular Formula: $C_{23}H_{34}IN_3O_3$

Molecular Weight: 527.44

Target: mAChR

Pathway: GPCR/G Protein; Neuronal Signaling

Storage: 4°C, sealed storage, away from moisture and light
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (189.60 mM)
* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	1.8960 mL	9.4798 mL	18.9595 mL
	5 mM	0.3792 mL	1.8960 mL	3.7919 mL
	10 mM	0.1896 mL	0.9480 mL	1.8960 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: ≥ 2.5 mg/mL (4.74 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (4.74 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (4.74 mM); Clear solution

BIOLOGICAL ACTIVITY

Description Beperidium iodide shows a competitive antagonistic effect against acetylcholine receptor with a pA2 of 7.93.

IC_{50} & Target pA2: 7.93 (Acetylcholine receptor)[1]

REFERENCES

[1]. Kawashima K, et al. Pharmacological properties of the novel antimuscarinic agent 4-[2-(1,2-benzisoxazol-3-yl)-2-(hexahydro-1H-azepin-1-yl)a cetoxy]-1-et hyl-1-methylpiperidinium iodide. Arzneimittelforschung. 1986 Jun;36(6):927-35.

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