Dexetimide

Cat. No.: HY-105545

CAS No.: 21888-98-2

Molecular Formula: $C_{23}H_{26}N_2O_2$

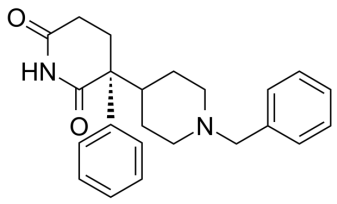
Molecular Weight: 362.46

Target: mAChR

Pathway: GPCR/G Protein; Neuronal Signaling

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 : ≥ 100 mg/mL (275.89 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.7589 mL	13.7946 mL	27.5893 mL
	5 mM	0.5518 mL	2.7589 mL	5.5179 mL
	10 mM	0.2759 mL	1.3795 mL	2.7589 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: ≥ 5 mg/mL (13.79 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 5 mg/mL (13.79 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 5 mg/mL (13.79 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Dexetimide ((+)-Benzetimide; (S)-(+)-Dexetimide; Dexbenzetimide) is a piperidine anticholinergic and a high-affinity muscarinic receptor antagonist. Dexetimide can be used in studies of parkinson's disease[1][2].

IC_{50} & Target

mAChR[1][2].

REFERENCES

[1]. Speck AL, et al. The absolute configuration and crystal structure of the anticholinergic drug dexbenzetimide. Nature. 1971 Aug 20;232(5312):575-6.

[2]. Müller-Gärtner HW, et al. Imaging muscarinic cholinergic receptors in human brain in vivo with Spect, [123I]4-iododexetimide, and [123I]4-iodolevetimide. J Cereb Blood Flow Metab. 1992 Jul;12(4):562-70.

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