Product Data Sheet

Product Name: Oxyphenonium (bromide)
Cat. No.: GC18332

Chemical Properties

Cas. No.	50-10-2		
Chemical Name	2-[(2-cyclohexyl-2-hydroxy-2-phenylacetyl)oxy]-N,N-diethyl-N-methyl-ethanaminium, monobromide		
SMILES	CC[N+](CCOC(C(C1=CC=CC=C1)(O)C2CCCCC2)=O)(C)CC.[Br-]		
Formula	$C_{21}H_{34}NO_3$.Br	M.Wt	428.4
Solubility	DMF: 33 mg/ml,DMSO: 25 mg/ml,Ethanol: 33 mg/ml,PBS (pH 7.2): 10 mg/ml	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	Oxyphenonium (bromide)		

Background

Oxyphenonium is an antagonist of muscarinic acetylcholine receptors that binds to muscarinic receptors on isolated guinea pig atria and ileum (Kds = 0.11 and 0.17 nM, respectively). In vivo, oxyphenonium reverses carbaminocholine- and acetylcholine-induced decreases in blood pressure in anesthetized cats (ED50s = 0.591 and 1 µg/kg, respectively). It decreases rumenal ulcer formation in rats and suppresses insulin-induced gastric secretion in dogs with gastric fistulas. Oxyphenonium also prevents form-deprivation myopia (FDM) in a chick model of experimental myopia. Formulations containing oxyphenonium have been used to treat peptic ulcers.

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