Product Data Sheet

Product Name: Fesoterodine
Cat. No.: GC39379

Chemical Properties

Cas. No.	286930-02-7		
SMILES	O=C(C(C)C)OC1=CC=C(CO)C=C1[C@@H](C2=CC=CC=C2)CCN(C(C)C)C(C)C		
Formula	$C_{26}H_{37}NO_3$	M.Wt	411.58
Solubility	Ethanol: 100 mg/mL (242.97 mM)	Storage	Store at -20°C,unstable in solution, ready to use.
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	Fesoterodine		

Background

Fesoterodine is an antagonist of muscarinic acetylcholine receptors (K_is = 15.8, 11.2, 12.6, 22.4, and 25.1 nM for human $M_{1\text{-}5}$, respectively).[1] *In vivo*, fesoterodine (0.01 mg/kg, i.v.) reduces micturition pressure and increases bladder capacity and intercontraction interval (ICI) in conscious female rats. Fesoterodine also reduces intermicturition pressure and prevents bladder overactivity in a rat model of spinal cord injury-induced overactive bladder.[2]

1.Ney, P., Pandita, R.K., Newgreen, D.T., et al.Pharmacological characterization of a novel investigational antimuscarinic drug, fesoterodine, in vitro and in vivoBJU Int.101(8)1036-1042(2008) 2.Biardeau, X., Przydacz, M., Aharony, S., et al.Early fesoterodine fumarate administration prevents neurogenic detrusor overactivity in a spinal cord transected rat modelPLoS One12(1)e0169694(2017)

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