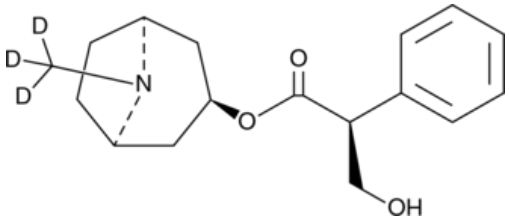
Product Data Sheet

Product Name: (-)-Hyoscyamine-d3
Cat. No.: GC46246

Chemical Properties

Cas. No.	N/A		
SMILES	O=C([C@H](CO)C1=CC=CC=C1)O[C@H]2C[C@H]3CC[C@H](N3C([2H])([2H])[2H])C2		
Formula	C17H20D3NO3	M.Wt	292.4
Solubility	Chloroform: 50 mg/ml,Ethanol: soluble,Methanol: soluble	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C 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



Background

(-)-Hyoscyamine-d_3 is intended for use as an internal standard for the quantification of (-)-hyoscyamine by GC- or LC-MS. (-)-Hyoscyamine is a tropane alkaloid, a muscarinic receptor antagonist, and an isomer of atropine .[1,2] (-)-Hyoscyamine inhibits the arterial depressor response induced by the muscarinic agonist methacholine in dogs.[1] It is more effective than atropine at inhibiting EEG arousal in dogs following sciatic nerve stimulation when administered at doses of 0.5 and 1 mg/kg. (-)-Hyoscyamine induces convulsions in and is toxic to mice (LD_{50} = 95 mg/kg).[2]

1.Domino, E.F., and Hudson, R.D.Observations on the pharmacological actions of the isomers of atropineJ. Pharmacol. Exp. Ther.127(4)305-312(1959) 2.Authority, E.F.S.Scientific Opinion on Tropane alkaloids in food and feed EFSA Panel on contaminants in the food chain (CONTAM)EFSA

Caution: Product has not been fully validated for medical applications. For research use only.
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