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DATASHEET

Bromocriptine mesylate

Product overview

Name	Bromocriptine mesylate
Cat No	HB1813
Biological action	Agonist
Purity	>98%
Description	Potent, selective D_2-like receptor agonist

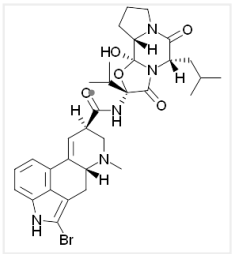
Biological Data

Biological description	Potent, selective D_2-like receptor agonist (K_i values are 5.3, 7.4, 454 and 645 nM at D_2, D_3, D_5 and D_1 receptors respectively). Prototypic antiparkinsonian agent. Active *in vivo*.

Solubility & Handling

Storage instructions	Room temperature
Solubility overview	DMSO and Ethanol
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	(5'a)-2-Bromo-12'-hydroxy-2'-(1-methylethyl)-5'-(2-methylpropyl)ergotaman-3',6',18-trione mesylate
Molecular Weight	750.7
Chemical structure	
Molecular Formula	$C_{32}H_{40}BrN_5O_5.CH_3SO_3H$
CAS Number	22260-51-1
PubChem identifier	31100
SMILES	[H][C@]4([C@@](N[C@]([C@H](C)C)5C(N([C@@]([H])(CC(C)C)C(N(CCC7)[C@@]76[H])=O)[C@@]6(O)O5)=O)=O)CN([C@](C3=C4)([H])CC1=C(Br)NC2=C1C3=CC=C2)C.CS(=O)(O)=O
InChiKey	NOJMTMIRQRDZMT-GSPXQYRGSA-N

References

Cloning of the gene for a human dopamine D5 receptor with higher affinity for dopamine than D1.

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Differential involvement of D1 and D2 dopamine receptors in L-DOPA-induced angiogenic activity in a rat model of Parkinson's disease.

Lindgren HS *et al* (2009) Neuropsychopharmacology 34(12)
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The D3 dopamine receptor: neurobiology and potential clinical relevance.

Levant B (1997) Pharmacol Rev 49(3)
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