Hello Bio Limited
Unit 8D, Dunshaughlin Business Park,
Dunshaughlin, Republic of Ireland

T. +353 51 540 083
F. +44(0) 1179 811 601

customercare@hellobio.com
technicalhelp@hellobio.com

Company Registration No. 642982

DATASHEET

Bromocriptine mesylate

Product overview

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

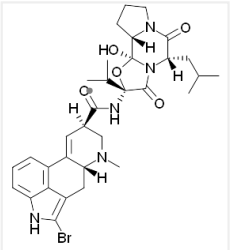
Biological Data

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

Solubility overview	DMSO and Ethanol
Storage instructions	Room temperature
Storage of solutions	Prepare and use solutions on the same day if possible. Store solutions at -20°C for up to one month if storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.
Shipping Conditions	Stable for ambient temperature shipping. Follow storage instructions on receipt.
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.

Sunahara RK *et al* (1991) Nature 350(6319)
PubMedID 1826762

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)
PubMedID 19606087

The D3 dopamine receptor: neurobiology and potential clinical relevance.

Levant B (1997) Pharmacol Rev 49(3)
PubMedID 9311022