

Hello Bio, Inc.  
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500  
F. 609-228-4994

customercare-usa@hellobio.com



## DATASHEET

Bromocriptine mesylate

### Product overview

<b>Name</b>	Bromocriptine mesylate
<b>Cat No</b>	HB1813
<b>Biological action</b>	Agonist
<b>Purity</b>	>98%
<b>Description</b>	Potent, selective D <sub>2</sub> -like receptor agonist

### Biological Data

<b>Biological description</b>	Potent, selective D <sub>2</sub> -like receptor agonist (K <sub>i</sub> values are 5.3, 7.4, 454 and 645 nM at D <sub>2</sub> , D <sub>3</sub> , D <sub>5</sub> and D <sub>1</sub> receptors respectively). Prototypic antiparkinsonian agent. Active <i>in vivo</i> .
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### Solubility & Handling

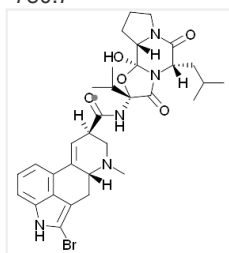
<b>Storage instructions</b>	Room temperature
<b>Solubility overview</b>	DMSO and Ethanol
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

### 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<sub>32</sub>H<sub>40</sub>BrN<sub>5</sub>O<sub>5</sub>·CH<sub>3</sub>SO<sub>3</sub>H

**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)CN([C@](C3=C4)([H])CC1=C(Br)NC2=C1C3=CC=C2)C.CS(=O)(O)=O

**InChiKey**

NOJMTMIRQRDZMT-GSPXQYRGS-A-N

### References

**Cloning of the gene for a human dopamine D<sub>5</sub> receptor with higher affinity for dopamine than D<sub>1</sub>.**

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](#)

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