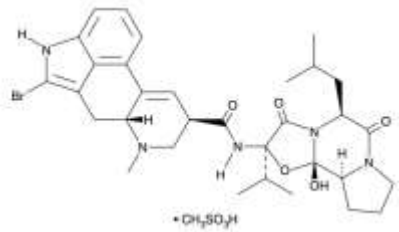
Bromocriptine (mesylate)

ALTERNATE NAME: (5α)-2-bromo-12'-hydroxy-2'-(1-methylethyl)-5'-(2-methylpropyl)-errgotaman-3',6',18-trione, monomethanesulfonate, 2-Bromo-alpha-ergocryptine, CB-154, Parlodel, Cycloset

CATALOG #: 2916-50, -250

AMOUNT: 50 mg, 250 mg

STRUCTURE:



MOLECULAR FORMULA: $C_{32}H_{40}BrN_5O_5 \cdot CH_3SO_3H$

FORMULA WEIGHT: 750.7

CAS NUMBER: 22260-51-1

APPEARANCE: Crystalline Solid

SOLUBILITY: DMSO or DMF (~30 mg/ml), Ethanol (~5 mg/ml). Organic solvents should be purged with inert gas before solubilizing. Sparingly soluble in aqueous solvents. Prepare DMSO stock solution and then dilute 1:4 with PBS (pH 7.2) for a final 0.2 mg/ml concentration.

PURITY: ≥98%

STORAGE: -20°C for 2 years

DESCRIPTION: Bromocriptine is a potent Cytochrome P450 3A inhibitor (~770 nM, see cat#K702). It also acts as a dopamine receptor agonist via the D2 receptor (Ki = 2.5 nM). As a result, it is used in combination therapy for Parkinsons disease. It also binds to the serotonin receptors 5-HT1A and 5-HT1D (Ki = 12.9 and 10.7 nM, respectively), as well as α and β adrenoreceptors and inhibits neuronal nitric oxide synthase (IC50 = 10 µM).

References:

Kvernmo et al., Clin Ther. 2006; 28(8):1065-78.
Millan et al., J. Pharmaco. Exp. Ther. 2002; 303(2):791-804.
Renodon et al., 1997; 406(1-2):33–36.

HANDLING: Protect from air, light and moisture. Do not take internally. Wear gloves and mask when handling since this product is toxic to the skin or eyes!

RELATED PRODUCTS:

Azamulin (Cat#2915)
Caffeic Acid (Cat#2006)
Itraconazole (Cat#1987)
Quercetin, Dihydrate (Cat#1773)
Quinidine Sulfate dihydrate (Cat#2910)
Resveratrol (Cat#1758)
Rosiglitazone (Cat#1559)
Thiabendazole (Cat#2161)
Cytochrome P450 3A4 (CYP3A4) Inhibitor Screening Kit (Fluorometric) (Cat#K702)

FOR RESEARCH USE ONLY! Not to be used on humans.

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