



>>Derivative: 2-Bromo; methanesulfonate salt
Synonym(s): Bromocriptine mesilate, JAN, USAN

CAS Registry Number: 22260-51-1

Physical Description: Cryst. (2-butanone)

Melting Point: Mp 192-196 dec.°

Optical Rotation: $[\alpha]_D^{20} +95$ (c, 1 in MeOH/CH₂Cl₂)

Hazard & Toxicity: Adverse systemic effects reported when used therapeutically (gastrointestinal, psychiatric, and cardiovascular). Exp. reprod. and teratogenic effects.
LD₅₀ (rat, ivn) 10.5 mg/kg

Fluka: 16997

Sigma: B2134

>>Derivative: 8α-Hydroxy

Synonym(s): 8α-Hydroxy-α-ergocryptine

Molecular Formula: C₃₂H₄₁N₅O₆

Molecular Weight: 591.706

Accurate Mass: 591.305685

Percentage Composition: C 64.96%; H 6.98%; N 11.84%; O 16.22%

Biological Source: Alkaloid from sclerotia of *Claviceps purpurea*

Physical Description: Amorph.

References:

- Schlientz, W. *et al.*, *Pharm. Acta Helv.*, 1968, **43**, 497, (isol, ir, pmr)
Ger. Pat., 1969, 1 926 045; *CA*, **72**, 43969b, (deriv)
Stadler, P.A. *et al.*, *Helv. Chim. Acta*, 1969, **52**, 1549, (synth, ir, uv, pmr)
Voigt, D. *et al.*, *Pharmazie*, 1974, **29**, 697, (ms)
Giron-Forest, D.A. *et al.*, *Anal. Profiles Drug Subst.*, 1979, **8**, 47, (rev, Bromocriptine, anal, synth)
Mehta, A.E. *et al.*, *Drugs*, 1979, **17**, 313, (rev, Bromocriptine, pharmacol)
Wurst, M. *et al.*, *J. Chromatogr.*, 1979, **174**, 401, (hplc)
Thorner, M.O. *et al.*, *Bromocriptine: A Clinical and Pharmacological Review*, Raven Press, N.Y., 1980, (book)
Rucman, R. *et al.*, *Farmaco, Ed. Sci.*, 1983, **38**, 406, (synth, Bromocriptine)
Barbien, R.L. *et al.*, *Fertil. Steril.*, 1983, **39**, 727, (rev, Bromocriptine)
Kanto, J., *Int. J. Clin. Pharmacol., Ther. Toxicol.*, 1983, **21**, 135, (Bromocriptine)
Crespi-Perellino, N. *et al.*, *J. Nat. Prod.*, 1987, **50**, 1065, (12'-O-Methyl-α-ergocryptine)
Yoshikawa, T. *et al.*, *J. Neurochem.*, 1994, **62**, 1034, (pharmacol)
Negwer, M., *Organic-Chemical Drugs and their Synonyms*, 7th edn., Akademie-Verlag, 1994, 11291, (synonyms)
Cvak, L. *et al.*, *Phytochemistry*, 1997, **44**, 365, (8-Hydroxy-α-ergocryptine)
Martindale, The Extra Pharmacopoeia, 32nd edn., Pharmaceutical Press, 1999, No. 1132
Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, BNB250; EDB100; BNB325