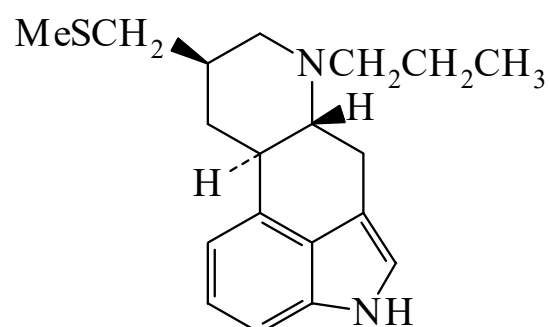




>>Entry Name: Pergolide, BAN, INN

Synonym(s): 8-[(Methylthio)methyl]-6-propylergoline, 9CI



CAS Registry Number: 66104-22-1

Molecular Formula: C₁₉H₂₆N₂S

Molecular Weight: 314.494

Accurate Mass: 314.181668

Percentage Composition: C 72.56%; H 8.33%; N 8.91%; S 10.20%

Biological Use/Importance: Semisynthetic ergotamide deriv. with strong dopamine (D₁ and D₂) agonist activity; currently under evaluation against Parkinson and hyperprolactinaemia characterised diseases. Neuroprotective effects, possibly via induction of striatal superoxide dismutase

Melting Point: Mp 206-209°

Calculated Log P Data: Log P 3.82 (uncertain value) (calc)

>>Derivative: Methanesulfonate

Synonym(s): Pergolide mesylate, USAN. Celance. Permax. Parkotil. Pharken. LY 127809

CAS Registry Number: 66104-23-2

Physical Description: Cryst.

Development Status: Launched 1988

Melting Point: Mp 225 dec.°

Hazard & Toxicity: LD₅₀ (rat, orl) 15 mg/kg. Exp. reprod. effects

Sigma: P8828

References:

- Eur. Pat.*, 1979, *Eli Lilly*, 3 667; *CA*, **92**, 181450q, (*synth, pharmacol*)
Fuller, R.W. *et al.*, *Life Sci.*, 1979, **24**, 375, (*pharmacol*)
Lemberger, L. *et al.*, *Science (Washington, D.C.)*, 1979, **205**, 1151, (*pharmacol*)
Rubin, A. *et al.*, *Clin. Pharmacol. Ther. (St. Louis)*, 1981, **30**, 258, (*metab*)
Kerr, K.M. *et al.*, *J. Chromatogr.*, 1981, **219**, 317, (*hplc*)
Callaghan, J.T. *et al.*, *Life Sci.*, 1981, **28**, 95, (*pharmacol*)
Jankovic, J., *Clin. Neuropharmacol.*, 1985, **8**, 131, (*rev, pharmacol*)
Ma, L.Y.Y. *et al.*, *Can. J. Chem.*, 1987, **65**, 256, (*cryst struct, bibl*)
Ruffolo, R.R. *et al.*, *Pharmacology*, 1987, **35**, 148, (*pharmacol*)
Clissold, S.P. *et al.*, *Drugs*, 1990, **39**, 491, (*rev*)
Buelke-Sam, J. *et al.*, *Neurotoxicol. Teratol.*, 1991, **13**, 297, (*tox*)
Sprankle, D.J. *et al.*, *Anal. Profiles Drug Subst.*, 1992, **21**, 375, (*rev*)
Colbert, W. *et al.*, *Arzneim.-Forsch.*, 1992, **42**, 599, (*pharmacol*)
Martindale, The Extra Pharmacopoeia, 30th edn., *Pharmaceutical Press*, 1993, 848
Clow, A. *et al.*, *Neurosci. Lett.*, 1993, **164**, 41, (*pharmacol*)
Francis, P.C. *et al.*, *Arzneim.-Forsch.*, 1994, **44**, 278, (*tox*)
Hoyt, J.A. *et al.*, *Arzneim.-Forsch.*, 1994, **44**, 1177, (*reprod tox*)
Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., *Van Nostrand Reinhold*, 1992, MPU500