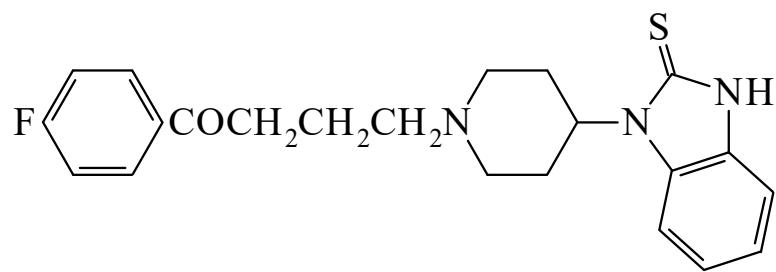




>>Entry Name: Timiperone, INN, JAN

Synonym(s): 4-[4-(2,3-Dihydro-2-thioxo-1*H*-benzimidazol-1-yl)-1-piperidiny]-1-(4-fluorophenyl)-1-butanone, 9CI. 4-Fluoro-4-[4-(2-thioxo-1-benzimidazoliny)l)piperidino] butyrophenone. Tolopelon. DD 3480



CAS Registry Number: 57648-21-2

Molecular Formula: C₂₂H₂₄FN₃OS

Molecular Weight: 397.515

Accurate Mass: 397.16241

Percentage Composition: C 66.47%; H 6.09%; F 4.78%; N 10.57%; O 4.02%; S 8.07%

Use/Importance: Neuroleptic, antiemetic agent

Physical Description: Cryst. (Me₂CO)

Development Status: Launched 1984

Melting Point: Mp 201-203°

Calculated Log P Data: Log P 2.97 (calc)

Hazard & Toxicity: LD₅₀ (rat, orl) 232 mg/kg. Exp. reprod. and teratogenic effects

References:

Sato, M. *et al.*, *J. Med. Chem.*, 1978, **21**, 1116, (*synth, pharmacol*)

Yamasaki, T. *et al.*, *Arzneim.-Forsch.*, 1981, **31**, 701; 707, (*pharmacol*)

Tachizawa, H. *et al.*, *Drug Metab. Dispos.*, 1981, **9**, 442, (*metab*)

Sato, M. *et al.*, *Chem. Pharm. Bull.*, 1982, **30**, 719

Martindale, *The Extra Pharmacopoeia*, 30th edn., Pharmaceutical Press, 1993, 619

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, TGB175