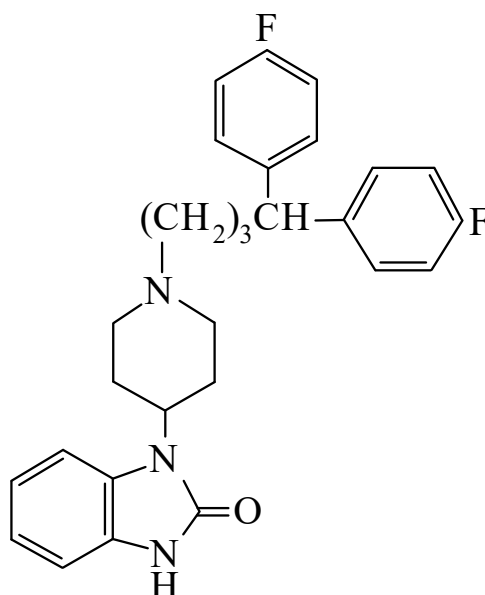




>>Entry Name: Pimozide, BAN, INN, JAN, USAN

Synonym(s): 1-[1-[4,4-Bis(4-fluorophenyl)butyl]-4-piperidiny]-1,3-dihydro-2H-benzimidazol-2-one, 9CI. Antalon. Norofren. Novoxide. Opiran. Oralep. Orap. Pimotid. Pirium. McN JR 6238. R 6238. SM 7354



CAS Registry Number: 2062-78-4

Molecular Formula: $C_{28}H_{29}F_2N_3O$

Molecular Weight: 461.553

Accurate Mass: 461.227868

Percentage Composition: C 72.86%; H 6.33%; F 8.23%; N 9.10%; O 3.47%

Use/Importance: Calcium channel antagonist. Selective dopamine D_2 -receptor antagonist and dopamine uptake inhibitor. Tranquilliser. Antipsychotic. Used to treat Tourette's syndrome

Melting Point: Mp 214-218°

Solubility: Insol. H_2O , sol. dil. acids

pKa Value: pK_a 7.32

Calculated Log P Data: Log P 6.42 (calc)

Hazard & Toxicity: Cardiotoxic effects reported when used therapeutically. LD_{50} (rat, orl) 1100 mg/kg. Exp. reprod. and teratogenic effects

Sigma: P1793

References:

- Fr. Pat.*, 1965, *Janssen*, M3695; *CA*, **66**, 115709, (*synth, pharmacol*)
Janssen, P.A.J. et al., Arzneim.-Forsch., 1968, **18**, 261; 279; 282, (*pharmacol*)
Soudijn, W. et al., Life Sci., 1969, **8**, 291, (*metab*)
Blessington, B., Org. Mass Spectrom., 1971, **5**, 1113, (*ms*)
Givant, Y. et al., Arch. Int. Pharmacodyn. Ther., 1973, **205**, 317, (*pharmacol*)
Kuhnert-Brandstaetter, M. et al., Sci. Pharm., 1974, **42**, 234, (*uv*)
Datta, N. et al., Acta Cryst. B, 1979, **35**, 675, (*cryst struct*)
Fillers, J.P. et al., Cryst. Struct. Commun., 1979, **8**, 81, (*cryst struct*)
Tueth, M.J. et al., South. Med. J., 1993, **86**, 344, (*use, rev*)
Sallee, F.R. et al., Acta Psychiatr. Scand., 1994, **90**, 4, (*use*)
Martindale, The Extra Pharmacopoeia, 31st edn., Pharmaceutical Press, 1996, 728
Lewis, R.J., Sax's Dangerous Properties of Industrial Materials, 9th edn., Van Nostrand Reinhold, 1996, PIH000