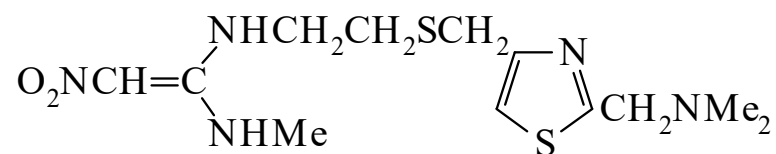




>>Entry Name: Nizatidine, BAN, INN, JAN, USAN

Synonym(s): *N*-[2-[[[2-[(Dimethylamino)methyl]-4-thiazolyl]methyl]thio]ethyl]-*N'*-methyl-2-nitro-1,1-ethenediamine, 9CI. Axid. Calmaxid. Cronizat. Distaxid. Gastrax. Naxidine. Nizax. Zanizal. Zinga. LY 139037



CAS Registry Number: 76963-41-2

Molecular Formula: C₁₂H₂₁N₅O₂S₂

Molecular Weight: 331.462

Accurate Mass: 331.113665

Percentage Composition: C 43.48%; H 6.39%; N 21.13%; O 9.65%; S 19.35%

Biological Use/Importance: Histamine H₂-receptor antagonist with antiacetylcholinesterase activity; antiulcer drug

Physical Description: Cryst. (EtOH/EtOAc)

Development Status: Marketed drug. Launched 1987. Worldwide 94th best selling prescription drug (\$0.42 bn) (Eli Lilly) (1998, Pharma Business)

Melting Point: Mp 130-132°

Calculated Log P Data: Log P 0.5 (uncertain value) (calc)

Hazard & Toxicity: LD₅₀ (rat, orl) 1680 mg/kg. LD₅₀ (rat, ivn) 301 mg/kg. Exp. reprod. and fetotoxic effects

References:

- U.S. Pat.*, 1983, *Eli Lilly*, 4 382 090; *CA*, **99**, 43548w, (*synth, pharmacol*)
Price, A.H. *et al.*, *Drugs*, 1988, **36**, 521, (*rev*)
Bemis, K. *et al.*, *Arzneim.-Forsch.*, 1989, **39**, 240, (*pharmacol*)
Probst, K.S. *et al.*, *Fundam. Appl. Toxicol.*, 1989, **13**, 778, (*tox*)
Wozniak, T.J., *Anal. Profiles Drug Subst.*, 1990, **19**, 397, (*rev*)
Kurimoto, T. *et al.*, *Arzneim.-Forsch.*, 1991, **41**, 950; 954; 958; 961, (*pharmacol, pharmacokinet*)
Ueki, S. *et al.*, *J. Pharmacol. Exp. Ther.*, 1993, **264**, 152, (*pharmacol*)
Negwer, M., *Organic-Chemical Drugs and their Synonyms*, 7th edn., *Akademie-Verlag*, 1994, 3190, (*synonyms*)
Scand. J. Gastroenterol., Suppl. 206, 1994, **29**, 1, (*rev*)
Martindale, The Extra Pharmacopoeia, 32nd edn., *Pharmaceutical Press*, 1999, 1203