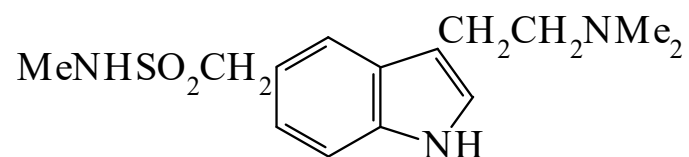




>>Entry Name: Sumatriptan, BAN, INN

Synonym(s): 3-[2-(Dimethylamino)ethyl]-*N*-methyl-1*H*-indole-5-methanesulfonamide, 9Cl. 3-[(2-Dimethylaminoethyl)-5-indolyl]-*N*-methylethanesulfonamide. Suproserin. GR 43175X



CAS Registry Number: 103628-46-2

Molecular Formula: C₁₄H₂₁N₃O₂S

Molecular Weight: 295.405

Accurate Mass: 295.135447

Percentage Composition: C 56.92%; H 7.17%; N 14.22%; O 10.83%; S 10.85%

Biological Use/Importance: 5HT₁ receptor agonist, used in treatment of migraine

Development Status: Marketed drug. Launched 1991 (Netherlands). Worldwide 40th best selling prescription drug (as Imitrex) (\$1.07 bn) (GlaxoSmithKline) (2000, Pharma Business)

Melting Point: Mp 173-175° (169-171°)

Calculated Log P Data: Log P 0.58 (uncertain value) (calc)

>>Derivative: Succinate (1:1)

Synonym(s): Sumatriptan succinate, BAN, USAN. Arcoiran. Imigran. Imigrane. Imitrex. Megrelan. Micralgin. Novelian. Permcran. Sumadol. Sumigrene. Suptran. GR 43175C

CAS Registry Number: 103628-48-4

Melting Point: Mp 165-166°

>>Derivative: Succinate (2:1)

Synonym(s): Sumatriptan hemisuccinate, BAN. GR 43175A

CAS Registry Number: 103628-47-3

Melting Point: Mp 158-159°

References:

- Ger. Pat.*, 1986, 3 527 648; *CA*, **105**, 78831, (*synth, pharmacol*)
Cady, R.K. *et al.*, *J. Am. Med. Assoc.*, 1991, **265**, 2831, (*pharmacol*)
Fullerton, T. *et al.*, *Ann. Pharmacother.*, 1992, **26**, 800, (*pharmacokinet, pharmacol*)
Feniuk, W. *et al.*, *Drug Dev. Res.*, 1992, **26**, 235, (*rev*)
Dechant, K.L. *et al.*, *Drugs*, 1992, **43**, 776, (*rev*)
Humphrey, P.P.A. *et al.*, *Cephalalgia (Oslo)*, 1994, **14**, 401, (*pharmacol, rev*)
Plosker, G.L. *et al.*, *Drugs*, 1994, **47**, 622, (*rev*)
Perry, C.M. *et al.*, *Drugs*, 1998, **55**, 889-922, (*rev*)
Pete, B. *et al.*, *Heterocycles*, 1998, **48**, 1139-1149; 2000, **53**, 665, (*synth*)
Martindale, The Extra Pharmacopoeia, 32nd edn., Pharmaceutical Press, 1999, 450