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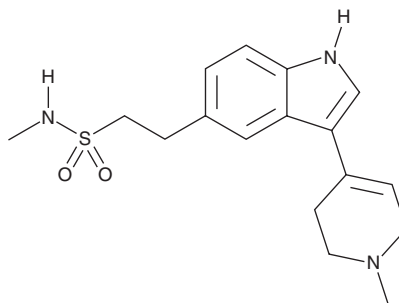
Product Information



3,4-dihydro Naratriptan

Item No. 17890

CAS Registry No.: 121679-20-7
Formal Name: N-methyl-3-(1,2,3,6-tetrahydro-1-methyl-4-pyridinyl)-1H-indole-5-ethanesulfonamide
Synonym: Naratriptan Impurity B
MF: C₁₇H₂₃N₃O₂S
FW: 333.4
Purity: ≥95%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: λ_{max}: 228, 260, 285 nm



Laboratory Procedures

For long term storage, we suggest that 3,4-dihydro naratriptan be stored as supplied at -20°C. It should be stable for at least two years.

3,4-dihydro Naratriptan is supplied as a crystalline solid. A stock solution may be made by dissolving the 3,4-dihydro naratriptan in the solvent of choice. 3,4-dihydro Naratriptan is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of 3,4-dihydro naratriptan in ethanol is approximately 0.1 mg/ml and approximately 10 mg/ml in DMSO and DMF.

3,4-dihydro Naratriptan is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, 3,4-dihydro naratriptan should first be dissolved in DMF and then diluted with the aqueous buffer of choice. 3,4-dihydro Naratriptan has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Naratriptan is a selective serotonin 5-HT_{1B} agonist (pK_i = 8.9 for human 5-HT_{1B}) used in the treatment of severe cephalic pain, including migraine headaches.¹⁻³ 3,4-dihydro Naratriptan is an impurity formed during the preparation of naratriptan.⁴

References

1. Gilmore, B. and Michael, M. Treatment of acute migraine headache. *Am. Fam. Physician* **83**(3), 271-280 (2011).
2. Wurch, T., Palmier, C., Colpaert, F.C., *et al.* Recombinant saphenous vein 5-HT_{1B} receptors of the rabbit: Comparative pharmacology with human 5-HT_{1B} receptors. *Br. J. Pharmacol.* **120**(1), 153-159 (1997).
3. Ferrari, M.D., Goadsby, P.J., Roon, K.I., *et al.* Triptans (serotonin, 5-HT_{1B/1D} agonists) in migraine: Detailed results and methods of meta-analysis of 53 trials. *Cephalalgia* **22**, 633-658 (2002).
4. Kumar, U.S., Sankar, V.R., Kumar, S.B., *et al.* An investigation into formation of impurity B during the optimization of naratriptan hydrochloride. *Org. Process Res. Dev.* **13**, 468-470 (2009).

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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