



LKT Laboratories, Inc.

Tropisetron Hydrochloride

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Product Information

Product ID T7156

CAS No. 105826-92-4

Chemical Name 1H-Indole-3-carboxylic acid (3-endo)-8-methyl-8-azabicyclo[3.2.1]oct-3-yl ester monohydrochloride

Synonym Navoban, Novaban

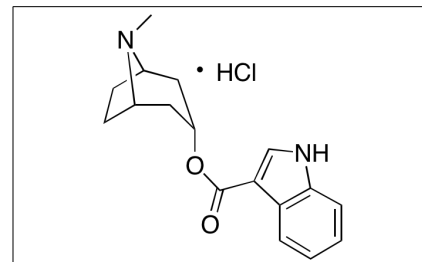
Formula $C_{17}H_{20}N_2O_2 \cdot HCl$

Formula Wt. 320.82

Melting Point 283-285°C (dec)

Purity ≥98%

Solubility Soluble in water.



Bulk quantities available upon request

Product ID	Size
T7156	10 mg
T7156	50 mg
T7156	100 mg

Store Temp 4°C

Ship Temp Ambient

Description Tropisetron is an antagonist at 5-HT₃ receptors and partial agonist at α₇ nicotinic acetylcholine receptors (nAChRs) that exhibits antiemetic, analgesic, anti-inflammatory, nephroprotective, neuroprotective, and anti-fibrotic activities. In animal models of nephrotoxicity, tropisetron decreases levels of TNF-α, IL-1β, and iNOS and improves renal pathology. Additionally, tropisetron increases survival of glutamatergic neurons by decreasing levels of p38 MAPK and inducing NMDA receptor internalization in vitro. Tropisetron also inhibits collagen synthesis and fibrosis in animal models of scleroderma.

References Zirak MR, Rahimian R, Ghazi-Khansari M, et al. Tropisetron attenuates cisplatin-induced nephrotoxicity in mice. *Eur J Pharmacol.* 2014 Jun 4. [Epub ahead of print]. PMID: 24905858.

Swartz MM, Linn DM, Linn CL. Tropisetron as a neuroprotective agent against glutamate-induced excitotoxicity and mechanisms of action. *Neuropharmacology.* 2013 Oct;73:111-21. PMID: 23727438.

Stegemann A, Sindrilaru A, Eckes B, et al. Tropisetron suppresses collagen synthesis in skin fibroblasts via α₇ nicotinic acetylcholine receptor and attenuates fibrosis in a scleroderma mouse model. *Arthritis Rheum.* 2013 Mar;65(3):792-804. PMID: 23440693.

Bandschapp O, Filitz J, Urwyler A, et al. Tropisetron blocks analgesic action of acetaminophen: a human pain model study. *Pain.* 2011 Jun;152(6):1304-10. PMID: 21420788.

Hsu ES. A review of granisetron, 5-hydroxytryptamine₃ receptor antagonists, and other antiemetics. *Am J Ther.* 2010 Sep-Oct;17(5):476-86. PMID: 20844345.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.