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Product Information

Product ID L5751

CAS No. 101477-54-7

Chemical Name 1-[Bis(4-fluorophenyl)methyl]-4-[(2,3,4-trimethoxyphenyl)methyl]

piperazine dihydrochloride

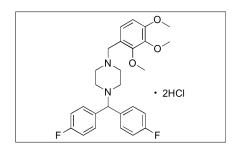
Synonym Lomerizine dihydrochloride

Formula C₂₇H₃₀F₂N₂O₃ • 2HCl

Formula Wt. 541.47 Melting Point 204-207°C

Purity ≥98%

Solubility



Bulk quanitites available upon request

Product ID	Size
L5751	100 mg
L5751	500 mg
L5751	1 g
L5751	5 g

Store Temp Ambient Ship Temp Ambient

Description Lomerizine is an inhibitor of voltage-gated L-type and T-type Ca2+ channels as well as transient receptor potential (TRP5) channels. Lomerizine is clinically used to treat migraine and vertigo. Lomerizine exhibits neuroprotective benefit in animal models of amyotrophic lateral sclerosis (ALS), decreasing glutamate excitotoxicity, Ca2+ overload, and mitochondrial dysfunction. In other animal models, lomerizine protects against NMDA-induced retinal damage and neurodegeneration.

References Tran LT, Gentil BJ, Sullivan KE, et al. The voltage-gated calcium channel blocker lomerizine is neuroprotective in motor neurons expressing mutant SOD1, but not TDP-43. J Neurochem. 2014 Apr 9. [Epub ahead of print]. PMID: 24716897.

> Inoue Y, Yabe T. Lomerizine therapy for the treatment of benign paroxysmal vertigo of childhood transitioning into atypical basilar migraine: A case report. Exp Ther Med. 2013 Jun;5(6):1573-1575. PMID: 23837033.

> Ito Y, Nakamura S, Tanaka H, et al. Lomerizine, a Ca2+ channel blocker, protects against neuronal degeneration within the visual center of the brain after retinal damage in mice. CNS Neurosci Ther. 2010 Apr;16(2):103-14. PMID: 19788586.

Fitzgerald M. Bartlett CA, Harvey AR, Dunlop SA. Early events of secondary degeneration after partial optic nerve transection: an immunohistochemical study. J Neurotrauma. 2010 Feb;27(2):439-452. PMID: 19852581.

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