

LKT Laboratories, Inc.

Sumatriptan Succinate

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Product Information

Product ID S8151

CAS No. 103628-48-4

Chemical Name 3-[2-(Dimethyl-amin)ethyl]-N-methyl-1H-indole-5-methanesulfonamide succinate; GR-43175C

Synonym

Formula $C_{14}H_{21}N_3O_2S \cdot C_4H_6O_4$

Formula Wt. 413.49

Melting Point 165-166 °C

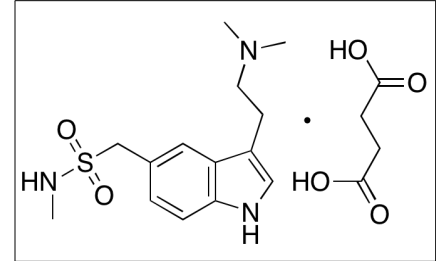
Purity ≥99%

Solubility

Store Temp Ambient

Ship Temp Ambient

Description Sumatriptan is a tryptamine agonist at 5-HT_{1B/1D} receptors that is clinically used to treat migraines. Sumatriptan exhibits vasoconstrictive and gastrointestinal motility modulating activities. The anti-migraine activity of sumatriptan is likely due to its vasoconstrictive activity and ability to decrease the release of substance P and CGRP. Sumatriptan also increases gastric relaxation and delays gastric emptying. Additionally, this compound inhibits 5-HT- and capsaicin-induced signaling of transient receptor potential vanilloid (TRPV1) channels and release of CGRP in vitro and in vivo.



Bulk quantities available upon request

Product ID	Size
S8151	25 mg
S8151	100 mg
S8151	250 mg
S8151	1 g

References Blumenfeld A, Gennings C, Cady R. Pharmacological synergy: the next frontier on therapeutic advancement for migraine. Headache. 2012 Apr;52(4):636-47. PMID: 22221151.

Loyd DR, Weiss G, Henry MA, et al. Serotonin increases the functional activity of capsaicin-sensitive rat trigeminal nociceptors via peripheral serotonin receptors. Pain. 2011 Oct;152(10):2267-76. PMID: 21737202.

Muñoz-Islas E, Lozano-Cuenca J, González-Hernández A, et al. Spinal sumatriptan inhibits capsaicin-induced canine external carotid vasodilatation via 5-HT_{1B} rather than 5-HT_{1D} receptors. Eur J Pharmacol. 2009 Aug 1;615(1-3):133-8. PMID: 19460365.

Moro E, Crema F, De Ponti F, et al. Triptans and gastric accommodation: pharmacological and therapeutic aspects. Dig Liver Dis. 2004 Jan;36(1):85-92. PMID: 14971822.

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