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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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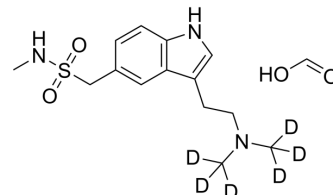
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Sumatriptan-d₆ formate

Cat. No.:	HY-B0121BS3
Molecular Formula:	C ₁₅ H ₁₇ D ₆ N ₃ O ₄ S
Molecular Weight:	347.46
Target:	Isotope-Labeled Compounds; 5-HT Receptor
Pathway:	Others; GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Sumatriptan-d₆ (formate) (GR 43175 free base-d₆ (formate)) is deuterium labeled Sumatriptan. Sumatriptan (GR 43175) is an orally active 5-HT₁ receptor agonist with IC₅₀s of 7.3 nm, 9.3nm and 17.8 nm for 5-HT_{1D}, 5-HT_{1B} and 5-HT_{1F} receptors, respectively. Sumatriptan can be used for migraine headache research^{[1][2][3][4][5]}.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019 Feb;53(2):211-216.
- [2]. K L Dechant, et al. Sumatriptan. A review of its pharmacodynamic and pharmacokinetic properties, and therapeutic efficacy in the acute treatment of migraine and cluster headache. Drugs. 1992 May;43(5):776-98.
- [3]. Razzaque Z, et al. Vasoconstriction in human isolated middle meningeal arteries: determining the contribution of 5-HT_{1B}- and 5-HT_{1F}-receptor activation. Br J Clin Pharmacol. 1999 Jan;47(1):75-82.
- [4]. S J Peroutka, et al. Sumatriptan (GR 43175) interacts selectively with 5-HT_{1B} and 5-HT_{1D} binding sites. Eur J Pharmacol. 1989 Apr 12;163(1):133-6.
- [5]. Bates EA, et al. Sumatriptan alleviates nitroglycerin-induced mechanical and thermal allodynia in mice. Cephalalgia. 2010 Feb;30(2):170-8.

Caution: Product has not been fully validated for medical applications. For research use only.

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