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Zuschläge

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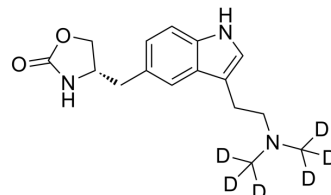
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Zolmitriptan-d₆

Cat. No.:	HY-B0229S
CAS No.:	1217644-84-2
Molecular Formula:	C ₁₆ H ₁₅ D ₆ N ₃ O ₂
Molecular Weight:	293.39
Target:	5-HT Receptor; Endogenous Metabolite; Isotope-Labeled Compounds
Pathway:	GPCR/G Protein; Neuronal Signaling; Metabolic Enzyme/Protease; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Zolmitriptan-d ₆ is deuterium labeled Zolmitriptan. Zolmitriptan (BW-311C90; 311C90) is a 5-HT _{1B/1D} receptor partial agonist with K _i s of 5.01 nM, 0.63 nM, and 63.09 nM for 5-HT _{1B} , 5-HT _{1D} , 5-HT _{1F} receptor, respectively. Zolmitriptan can be used for the research of migraine[1][2].
In Vitro	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019;53(2):211-216.
- [2]. G R Martin, et al. Receptor specificity and trigemino-vascular inhibitory actions of a novel 5-HT_{1B/1D} receptor partial agonist, 311C90 (zolmitriptan). *Br J Pharmacol*. 1997 May;121(2):157-64.
- [3]. Katherine C Murray, et al. Polysynaptic excitatory postsynaptic potentials that trigger spasms after spinal cord injury in rats are inhibited by 5-HT_{1B} and 5-HT_{1F} receptors. *J Neurophysiol*. 2011 Aug;106(2):925-43.

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

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