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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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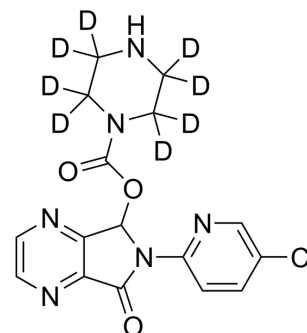
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N-Desmethyl zopiclone-d₈

Cat. No.:	HY-U00199S
CAS No.:	1189805-43-3
Molecular Formula:	C ₁₆ H ₇ D ₈ ClN ₆ O ₃
Molecular Weight:	382.83
Target:	Drug Metabolite; Isotope-Labeled Compounds
Pathway:	Metabolic Enzyme/Protease; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	N-Desmethyl zopiclone-d ₈ is deuterium labeled Norzopiclone. Norzopiclone is the inactive metabolite of Zopiclone. Norzopiclone has some anxiolytic properties.
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]. Sha Y, et al. Synthesis of RP 48497, an impurity of eszopiclone. *Molecules*. 2008 Aug 22;13(8):1817-21.
- [3]. Thomas P. Jerussi, et al. Methods of making and using N-desmethylzopiclone. US 6339086 B1.
- [4]. Tornio A, et al. The CYP2C8 inhibitor gemfibrozil does not increase the plasma concentrations of zopiclone. *Eur J Clin Pharmacol*. 2006 Aug;62(8):645-51.

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

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