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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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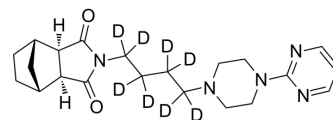
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Tandospirone-d₈

Cat. No.:	HY-14558S
CAS No.:	1794835-73-6
Molecular Formula:	C ₂₁ H ₂₁ D ₈ N ₅ O ₂
Molecular Weight:	391.54
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

Tandospirone-d₈ (SM-3997-d₈) is deuterium labeled Tandospirone. Tandospirone (SM-3997) is a potent and selective 5-HT_{1A} receptor partial agonist, with a K_i of 27 nM. Tandospirone has anxiolytic and antidepressant activities. Tandospirone can be used for the research of the central nervous system disorders and the underlying mechanisms^{[1][2][3][4]}.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.
- [2]. Hamik A, et al. Analysis of tandospirone (SM-3997) interactions with neurotransmitter receptor binding sites. *Biol Psychiatry*. 1990 Jul 15;28(2):99-109.
- [3]. Xuefei Huang, et al. Role of tandospirone, a 5-HT_{1A} receptor partial agonist, in the treatment of central nervous system disorders and the underlying mechanisms. *Oncotarget*. 2017 Nov 24; 8(60): 102705–102720.
- [4]. Kyoko Nishitsuji, et al. The pharmacokinetics and pharmacodynamics of tandospirone in rats exposed to conditioned fear stress. *Eur Neuropsychopharmacol*. 2006 Jul;16(5):376-82.

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

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