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Zuschläge

- Mindermengenzuschlag
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- Expressversand

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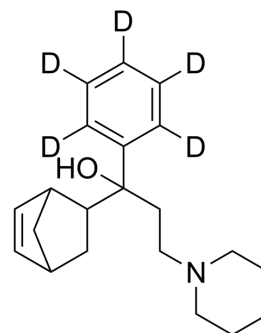
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Biperiden-d₅

Cat. No.:	HY-13204AS
CAS No.:	2938691-75-7
Molecular Formula:	C ₂₁ H ₂₄ D ₅ NO
Molecular Weight:	316.49
Target:	Isotope-Labeled Compounds; mAChR
Pathway:	Others; GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Biperiden-d₅ (KL 373-d₅) is deuterium labeled Biperiden. Biperiden (KL 373) is a non-selective muscarinic receptor antagonist that competitively binds to M1 muscarinic receptors, thereby inhibiting acetylcholine and enhancing dopamine signaling in the central nervous system. Biperiden has the potential for the research of Parkinson's disease and other related psychiatric disorders^{[1][2]}.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.
- [2]. Leonie Konczalla et al. Biperiden and mepazine effectively inhibit MALT1 activity and tumor growth in pancreatic cancer. *Int J Cancer*. 2020 Mar 15;146(6):1618-1630.
- [3]. Pehl C, et al. Effects of two anticholinergic drugs, trospium chloride and biperiden, on motility and evoked potentials of the oesophagus. *Aliment Pharmacol Ther*. 1998 Oct;12(10)
- [4]. Simone Bittencourt, et al. Modification of the natural progression of epileptogenesis by means of biperiden in the pilocarpine model of epilepsy. *Epilepsy Res*. 2017 Dec;138:88-97. doi: 10.1016/j.eplepsyres.2017.10.019. Epub 2017 Oct 29.
- [5]. Kornhuber J, et al. Identification of novel functional inhibitors of acid sphingomyelinase. *PLoS One*. 2011;6(8)
- [6]. Myhrer T, et al. Antiparkinson drugs used as prophylactics for nerve agents: studies of cognitive side effects in rats. *Pharmacol Biochem Behav*. 2008 Jun;89(4):633-8.

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

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