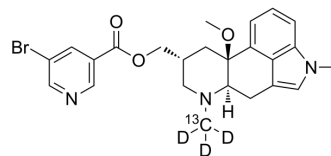


Nicergoline-¹³C,₃D₃

Cat. No.:	HY-B0702S
Molecular Formula:	C ₂₃ ¹³ CH ₂₃ D ₃ BrN ₃ O ₃
Molecular Weight:	488.4
Target:	Adrenergic Receptor; Isotope-Labeled Compounds
Pathway:	GPCR/G Protein; Neuronal Signaling; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Nicergoline- ¹³ C, ₃ D ₃ is the ¹³ C- and deuterium labeled Nicergoline. Nicergoline, an ergoline derivative ester of bromonicotinic acid, is a potent, selective and orally active antagonist of α1A-adrenoceptor. Nicergoline has vasodilator effects. Nicergoline also has ameliorative effects on cognitive function in mouse models of Alzheimer's disease[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 ^[75] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

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- [2]. Alvarez-Guerra, M., N. Bertholom, and R.P. Garay, Selective blockade by nicergoline of vascular responses elicited by stimulation of alpha 1A-adrenoceptor subtype in the rat. *Fundam Clin Pharmacol*, 1999. 13(1): p. 50-8.
- [3]. Mizuno T, et, al. Protective effects of nicergoline against neuronal cell death induced by activated microglia and astrocytes. *Brain Res.* 2005 Dec 20;1066(1-2):78-85.
- [4]. Zang G, et, al. Ameliorative effect of nicergoline on cognitive function through the PI3K/AKT signaling pathway in mouse models of Alzheimer's disease. *Mol Med Rep.* 2018 May;17(5):7293-7300.

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

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