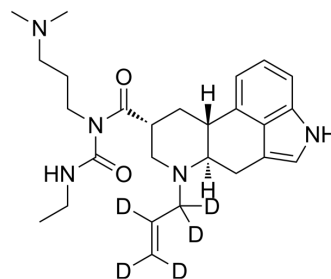


## Cabergoline-d<sub>5</sub>

<b>Cat. No.:</b>	HY-15296S
<b>CAS No.:</b>	1426173-20-7
<b>Molecular Formula:</b>	C <sub>26</sub> H <sub>32</sub> D <sub>5</sub> N <sub>5</sub> O <sub>2</sub>
<b>Molecular Weight:</b>	456.64
<b>Target:</b>	Dopamine Receptor; Autophagy; Isotope-Labeled Compounds
<b>Pathway:</b>	GPCR/G Protein; Neuronal Signaling; Autophagy; Others
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Cabergoline-d <sub>5</sub> is the deuterium labeled Cabergoline. Cabergoline is an ergot derived-dopamine D <sub>2</sub> -like receptor agonist that has high affinity for D <sub>2</sub> , D <sub>3</sub> , and 5-HT <sub>2B</sub> receptors (K <sub>i</sub> =0.7, 1.5, and 1.2, respectively)[1][2].	
<b>IC<sub>50</sub> &amp; Target</b>	D <sub>3</sub> Receptor	D <sub>2</sub> Receptor
<b>In Vitro</b>	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 <sup>[1]</sup> . 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]. Odaka H, et al. Cabergoline, dopamine D<sub>2</sub> receptor agonist, prevents neuronal cell death under oxidative stress via reducing excitotoxicity. *PLoS One*. 2014 Jun 10;9(6):e99271.
- [3]. Jefferson F, et al. A dopamine receptor d<sub>2</sub>-type agonist attenuates the ability of stress to alter sleep in mice. *Endocrinology*. 2014 Nov;155(11):4411-21.

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

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