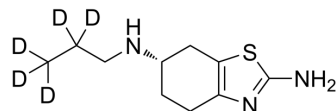


Pramipexole-d₅

Cat. No.:	HY-B0410S1
CAS No.:	1217975-28-4
Molecular Formula:	C ₁₀ H ₁₂ D ₅ N ₃ S
Molecular Weight:	216.36
Target:	Dopamine Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Pramipexole-d ₅ is the deuterium labeled Pramipexole[1]. Pramipexole is a selective and blood-brain barrier (BBB) penetrant dopamine D ₂ -type receptor agonist, with Kis of 2.2 nM, 3.9 nM, 0.5 nM and 1.3 nM for D ₂ -type receptor, D ₂ , D ₃ and D ₄ receptors, respectively. Pramipexole can be used for the research of Parkinson's disease (PD) and restless legs syndrome (RLS)[2][3][4].
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

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- [4]. Ginetta Collo, et al. Ropinirole and Pramipexole Promote Structural Plasticity in Human iPSC-Derived Dopaminergic Neurons via BDNF and mTOR Signaling. *Neural Plast*. 2018 2018: 4196961.
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Caution: Product has not been fully validated for medical applications. For research use only.

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