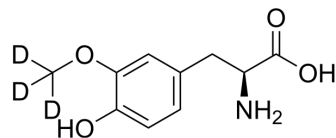


3-O-Methyldopa-d₃

Cat. No.:	HY-113468AS		
CAS No.:	586954-09-8		
Molecular Formula:	C ₁₀ H ₁₀ D ₃ NO ₄		
Molecular Weight:	214.23		
Target:	Dopamine Receptor; Endogenous Metabolite		
Pathway:	GPCR/G Protein; Neuronal Signaling; Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



BIOLOGICAL ACTIVITY

Description

3-O-Methyldopa-d₃ is deuterium labeled 3-O-Methyldopa. 3-O-Methyldopa is a metabolite of L-DOPA which is formed by catechol-O-methyltransferase (COMT). 3-O-Methyldopa competitively inhibits the pharmacodynamics of L-DOPA and dopamine[1].

REFERENCES

[1]. Masato Asanuma, et al. 3-O-Methyldopa inhibits astrocyte-mediated dopaminergic neuroprotective effects of L-DOPA. BMC Neurosci. 2016 Jul 25;17(1):52.

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

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