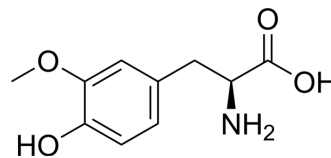


3-O-Methyldopa

Cat. No.:	HY-113468A		
CAS No.:	300-48-1		
Molecular Formula:	C ₁₀ H ₁₃ NO ₄		
Molecular Weight:	211.21		
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



SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 16.67 mg/mL (78.93 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
Preparing Stock Solutions	1 mM	4.7346 mL	23.6731 mL	47.3462 mL
	5 mM	0.9469 mL	4.7346 mL	9.4692 mL
	10 mM	0.4735 mL	2.3673 mL	4.7346 mL
Please refer to the solubility information to select the appropriate solvent.				
In Vivo	1. Add each solvent one by one: PBS Solubility: 10 mg/mL (47.35 mM); Clear solution; Need ultrasonic			

BIOLOGICAL ACTIVITY

Description	3-O-Methyldopa (3-Methoxy-L-tyrosine) 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] .
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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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