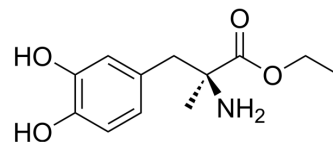


Methyldopate

Cat. No.:	HY-B1696
CAS No.:	6014-30-8
Molecular Formula:	C ₁₂ H ₁₇ NO ₄
Molecular Weight:	239.27
Target:	Adrenergic Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (417.94 mM; Need ultrasonic)				
	Preparing Stock Solutions	<div>Solvent Concentration</div> <div>Mass</div>	1 mg	5 mg	10 mg
		1 mM	4.1794 mL	20.8969 mL	41.7938 mL
		5 mM	0.8359 mL	4.1794 mL	8.3588 mL
		10 mM	0.4179 mL	2.0897 mL	4.1794 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (10.45 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (10.45 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (10.45 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Methyldopate is an ethyl ester proagent of α-Methyldopa (α-MD; HY-B0225). Methyldopa (L-(-)-α-Methyldopa) is an α-adrenergic agonist (selective for α2-adrenergic receptors). Methyldopate has the potential for severe hypertension research [1].
IC ₅₀ & Target	α adrenergic receptor
In Vivo	Methyldopate is hydrolysed in vivo to methyldopa ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Hoskins JA, et al. Determination of alpha-methyldopa and methyldopate in human breast milk and plasma by ion-exchange chromatography using electrochemical detection. J Chromatogr. 1982 Jun 11;230(1):162-7.
- [2]. P D Walson, et al. Metabolic disposition and cardiovascular effects of methyldopate in unanesthetized rhesus monkeys. J Pharmacol Exp Ther. 1975 Oct;195(1):151-8.
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Caution: Product has not been fully validated for medical applications. For research use only.

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