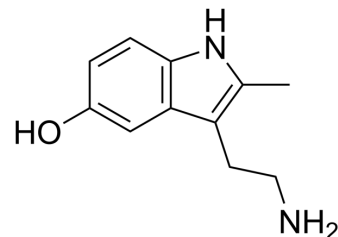


## 2-Methyl-5-HT

<b>Cat. No.:</b>	HY-19358		
<b>CAS No.:</b>	78263-90-8		
<b>Molecular Formula:</b>	C <sub>11</sub> H <sub>14</sub> N <sub>2</sub> O		
<b>Molecular Weight:</b>	190.24		
<b>Target:</b>	5-HT Receptor		
<b>Pathway:</b>	GPCR/G Protein; Neuronal Signaling		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 125 mg/mL (657.06 mM; Need ultrasonic)  
 H<sub>2</sub>O : < 0.1 mg/mL (ultrasonic) (insoluble)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	5.2565 mL	26.2826 mL	52.5652 mL
	5 mM	1.0513 mL	5.2565 mL	10.5130 mL
	10 mM	0.5257 mL	2.6283 mL	5.2565 mL

Please refer to the solubility information to select the appropriate solvent.

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
 Solubility: ≥ 2.08 mg/mL (10.93 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
 Solubility: ≥ 2.08 mg/mL (10.93 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

2-Methyl-5-HT (2-Methyl-5-hydroxytryptamine) is a potent and selective 5-HT<sub>3</sub> receptor agonist. 2-Methyl-5-HT is shown to display anti-depressive-like effects<sup>[1]</sup>.

#### IC<sub>50</sub> & Target

5-HT<sub>3</sub> Receptor

#### In Vivo

2-Methyl-5-HT (2-Methyl-5-hydroxytryptamine) significantly decreases time of immobility thus showing anti-depressive-like effects<sup>[1]</sup>.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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Animal Model:	Male Sprague-Dawley rats <sup>[1]</sup>
Dosage:	3 mg/kg
Administration:	I.p.; 45 minutes
Result:	Significantly decreased time of immobility thus showing anti-depressive-like effects.

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## REFERENCES

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[1]. Sumaya IC, et al. Differential effects of a short-term high-fat diet in an animal model of depression in rats treated with the 5-HT<sub>3</sub> receptor antagonist, ondansetron, the 5-HT<sub>3</sub> receptor agonist, 2-methyl-5-HT, and the SSRI, fluoxetine. *Pharmacol Biochem Behav.* 2016 May;144:78-84.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA