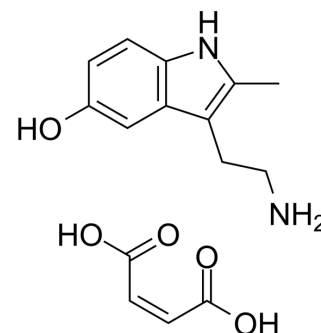


2-Methyl-5-HT maleate

Cat. No.:	HY-19358B
CAS No.:	78263-91-9
Molecular Formula:	C ₁₅ H ₁₈ N ₂ O ₅
Molecular Weight:	306.31
Target:	5-HT Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	2-Methyl-5-HT maleate (2-Methyl-5-hydroxytryptamine maleate) is a potent and selective 5-HT ₃ receptor agonist. 2-Methyl-5-HT maleate is shown to display anti-depressive-like effects ^[1] .									
IC₅₀ & Target	5-HT ₃ Receptor									
In Vivo	<p>2-Methyl-5-HT maleate (2-Methyl-5-hydroxytryptamine maleate) (i.p.; 3 mg/kg; 45 minutes) significantly decreases time of immobility as compared to controls thus showing anti-depressive-like effects^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <table border="1"> <tr> <td>Animal Model:</td> <td>Male Sprague-Dawley rats^[1]</td> </tr> <tr> <td>Dosage:</td> <td>3 mg/kg</td> </tr> <tr> <td>Administration:</td> <td>I.p.; 45 minutes</td> </tr> <tr> <td>Result:</td> <td>Significantly decreased time of immobility thus showing anti-depressive-like effects.</td> </tr> </table>		Animal Model:	Male Sprague-Dawley rats ^[1]	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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Dosage:	3 mg/kg									
Administration:	I.p.; 45 minutes									
Result:	Significantly decreased time of immobility thus showing anti-depressive-like effects.									

REFERENCES

[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-HT₃ receptor antagonist, ondansetron, the 5-HT₃ receptor agonist, 2-methyl-5-HT, and the SSRI, fluoxetine. *Pharmacol Biochem Behav.* 2016 May;144:78-84.

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

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