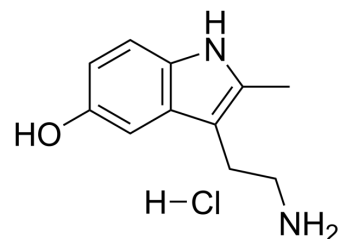


2-Methyl-5-HT hydrochloride

Cat. No.:	HY-19358A
CAS No.:	845861-49-6
Molecular Formula:	C ₁₁ H ₁₅ ClN ₂ O
Molecular Weight:	226.7
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 hydrochloride (2-Methyl-5-hydroxytryptamine hydrochloride) is a potent and selective 5-HT ₃ receptor agonist. 2-Methyl-5-HT hydrochloride is shown to display anti-depressive-like effects ^[1] .	
IC₅₀ & Target	5-HT ₃ Receptor	
In Vivo	2-Methyl-5-HT hydrochloride (2-Methyl-5-hydroxytryptamine hydrochloride) (i.p.; 3 mg/kg; 45 minutes) significantly decreases time of immobility as compared to controls thus showing anti-depressive-like effects ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	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.

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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