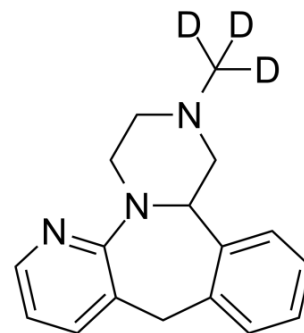


Mirtazapine D3

Cat. No.:	HY-B0352S
CAS No.:	1216678-68-0
Molecular Formula:	C ₁₇ H ₁₆ D ₃ N ₃
Molecular Weight:	268.37
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	Mirtazapine D3 (Org3770 D3; 6-Azamianserine D3) is a deuterium labeled Mirtazapine. Mirtazapine is a 5-HT receptor inhibitor. Mirtazapine is a potent and orally active noradrenergic and specific serotonergic antidepressant (NaSSA) agent by blocking 5-HT ₂ and 5-HT ₃ receptors ^[1] .									
IC₅₀ & Target	5-HT ₂ Receptor	5-HT ₃ Receptor								
In Vivo	<p>Mirtazapine (intraperitoneal injection; 10–50 mg/Kg; 14 days) treatment normalizes heart rate, breath rate, anxiety levels and eliminates the hopping behavior observed in MeCP2-null mice, leading to improved phenotypic score^[2]. 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>MeCP2 null mice^[2]</td> </tr> <tr> <td>Dosage:</td> <td>10-50 mg/Kg</td> </tr> <tr> <td>Administration:</td> <td>Intraperitoneal injection; 10-50 mg/Kg; 14 days</td> </tr> <tr> <td>Result:</td> <td>Restored the thickness of MeCP2-null mice somatosensory cortex, especially of layers II-III and VI.</td> </tr> </table>		Animal Model:	MeCP2 null mice ^[2]	Dosage:	10-50 mg/Kg	Administration:	Intraperitoneal injection; 10-50 mg/Kg; 14 days	Result:	Restored the thickness of MeCP2-null mice somatosensory cortex, especially of layers II-III and VI.
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Result:	Restored the thickness of MeCP2-null mice somatosensory cortex, especially of layers II-III and VI.									

REFERENCES

[1]. Anttila, S.A. and E.V. Leinonen, A review of the pharmacological and clinical profile of mirtazapine. CNS Drug Rev, 2001. 7(3): p. 249-64.

[2]. Kooyman AR, et al. Interaction between enantiomers of mianserin and ORG3770 at 5-HT₃ receptors in cultured mouse neuroblastoma cells. Neuropharmacology. 1994 Mar-Apr;33(3-4):501-7.

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

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