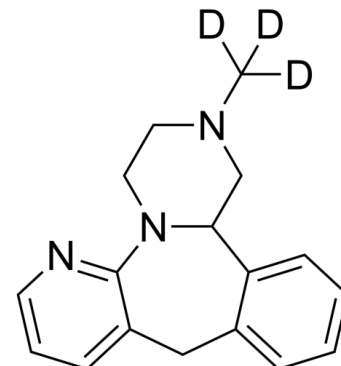


Data Sheet

Product Name:	Mirtazapine-d3
Cat. No.:	CS-0111894
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
Solubility:	DMSO : 100 mg/mL (372.62 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

Mirtazapine D3 (Org3770 D3; 6-Azamianserin 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-HT₂ and 5-HT₃ receptors^[1]. **In Vivo:** 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].

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.

CAIndexNames:

2-(Methyl-d3)-1,2,3,4,10,14b-hexahydrobenzo[c]pyrazino[1,2-a]pyrido[3,2-f]azepine

SMILES:

[2H]C([2H])([2H])N1CC2C3=CC=CC=C3CC4=CC=CN=C4N2CC1

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

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