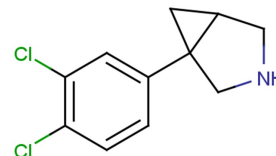


DOV-216,303 Free Base

Chemical Properties

CAS No.:	66504-40-3
Formula:	C ₁₁ H ₁₁ Cl ₂ N
Molecular Weight:	228.12
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

**Biological Description**

Description	Dov-216,303 (free base) is an effective trihydroxytryptamine, norepinephrine and dopamine reuptake inhibitor with IC ₅₀ values of 14 nM, 20 nM and 78 nM for hSERT, hNET and hDAT, respectively. It has similar antidepressant effects and increases monoamine release in the prefrontal cortex of OBX rats.
Targets(IC ₅₀)	serotonin: 14 nM norepinephrine: 20 nM dopamine: 78 nM
In vivo	Acute DOV-216,303 (20 mg/kg, I.P.) significantly increased dopamine, norepinephrine and serotonin levels in OBX and Sham animals. Chronic treatment of polyfluorohepatitis c 216,303 (20 mg/kg, i.p.) The extracellular concentrations of dopamine, norepinephrine and serotonin in the medial prefrontal cortex of OBX and Sham animals were increased, and the baseline extracellular serotonin concentration was significantly increased.

Solubility Information

Solubility	DMSO: 125 mg/mL (547.96 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.384 mL	21.918 mL	43.837 mL
5 mM	0.877 mL	4.384 mL	8.767 mL
10 mM	0.438 mL	2.192 mL	4.384 mL
50 mM	0.088 mL	0.438 mL	0.877 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

- Shao L, et al. Discovery of N-methyl-1-(1-phenylcyclohexyl)methanamine, a novel triple serotonin, norepinephrine, and dopamine reuptake inhibitor. Bioorg Med Chem Lett. 2011 Mar 1;21(5):1438-41.
- Prins J, et al. The putative antidepressant DOV 216,303, a triple reuptake inhibitor, increases monoamine release in the prefrontal cortex of olfactory bulbectomized rats. Eur J Pharmacol. 2010 May 10;633(1-3):55-61.

Inhibitors · Natural Compounds · Compound Libraries

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