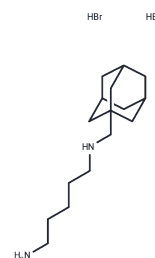


IEM 1754 2HBr

Chemical Properties

CAS No. :	162831-31-4
Formula:	C ₁₆ H ₃₀ N ₂ ·2HBr
Molecular Weight:	412.25
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	IEM 1754 2HBr (IEM 1754 dihydrobromide) is a selective AMPA/kainate receptor blockers for GluR1 and GluR3 with IC ₅₀ of 6 μ M.
Targets(IC ₅₀)	GluR
In vitro	IEM 1754 is an adamantane derivative. IEM 1754 causes use- and voltage-dependent block of open channels of recombinant AMPA receptors. This antagonism is dependent on receptor subunit composition, channels gated by recombinant, homomeric GluR1 and GluR3 receptors exhibits a higher sensitivity to block than those gated by receptors containing edited GluR2 subunits. [1] IEM-1754 block of GluR2-containing AMPAR is enhanced by hyperpolarization in agreement with the classical single-exponential model. In contrast, the block of GluR2-lacking AMPAR is reduced by hyperpolarization. [2]

Solubility Information

Solubility	H ₂ O: 75 mg/mL (181.93 mM), Sonication is recommended. Ethanol: < 1 mg/mL (insoluble or slightly soluble), DMSO: 50 mg/mL (121.29 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4257 mL	12.1286 mL	24.2571 mL
5 mM	0.4851 mL	2.4257 mL	4.8514 mL
10 mM	0.2426 mL	1.2129 mL	2.4257 mL
50 mM	0.0485 mL	0.2426 mL	0.4851 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Magazanik LG, et al. J Physiol, 1997, 505(Pt 3), 655-663.

Tikhonov DB, et al. Br J Pharmacol, 2000, 129(2), 265-274.

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