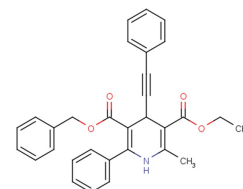


MRS-1191

Chemical Properties

CAS No.:	185222-90-6
Formula:	C ₃₁ H ₂₇ NO ₄
Molecular Weight:	477.55
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	MRS-1191 is an effective and selective A3 adenosine receptor antagonist (KB: 92 nM, a Ki: 31.4 nM for human A3 receptor and an IC50: 120 nM for CHO cells).
Targets(IC ₅₀)	human A3 adenosine receptor: (ki)31.4 nM
In vitro	MRS-1191 is found to be competitive in saturation binding studies using the agonist radioligand [¹²⁵ I]AB-MECA (N6-(4-amino-3-iodobenzyl)adenosine-5'-N-methylbromide) at cloned human brain A3 receptor expressed in HEK-293 cells. The effects of putative A3 adenosine receptor antagonist of MRS-1191 is characterized in receptor binding and functional assays. MRS-1191 with a KB value of 92 nM, proves to be highly selective for human A3 receptor vs human A1 receptor-mediated effects on adenylate cyclase .

Solubility Information

Solubility	DMSO: 250 mg/mL (523.51 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.094 mL	10.47 mL	20.94 mL
5 mM	0.419 mL	2.094 mL	4.188 mL
10 mM	0.209 mL	1.047 mL	2.094 mL
50 mM	0.042 mL	0.209 mL	0.419 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

1. Jacobson KA, et al. Pharmacological characterization of novel A3 adenosine receptor-selective antagonists. *Neuropharmacology*. 1997 Sep;36(9):1157-65.

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