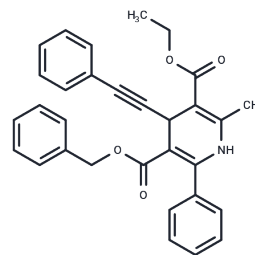


MRS-1191

Chemical Properties

CAS No. :	185222-90-6
Formula:	C ₃₁ H ₂₇ N ₃ O ₄
Molecular Weight:	477.55
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	MRS-1191 is an effective and selective A ₃ adenosine receptor antagonist (KB: 92 nM, a K _i : 31.4 nM for human A ₃ receptor and an IC ₅₀ : 120 nM for CHO cells).
Targets(IC ₅₀)	Others
In vitro	MRS-1191 is found to be competitive in saturation binding studies using the agonist radioligand [125I]AB-MECA (N ⁶ -(4-amino-3-iodobenzyl)adenosine-5'-N-methylbromide) at cloned human brain A ₃ receptor expressed in HEK-293 cells. The effects of putative A ₃ 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 A ₃ receptor vs human A ₁ receptor-mediated effects on adenylate cyclase .

Solubility Information

Solubility	DMSO: 250 mg/mL (523.51 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	2.094 mL	10.4701 mL	20.9402 mL
5 mM	0.4188 mL	2.094 mL	4.188 mL
10 mM	0.2094 mL	1.047 mL	2.094 mL
50 mM	0.0419 mL	0.2094 mL	0.4188 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

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

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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