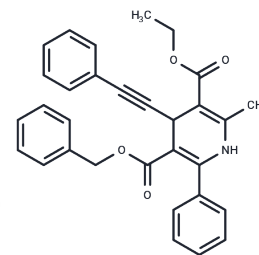


MRS-1191

## Chemical Properties

CAS No. : 185222-90-6  
 Formula: C<sub>31</sub>H<sub>27</sub>N<sub>1</sub>O<sub>4</sub>  
 Molecular Weight: 477.55  
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year  
*Actual storage temperature shall be subject to the COA.*



## Biological Description

Description	MRS-1191 is an effective and selective A <sub>3</sub> adenosine receptor antagonist (KB: 92 nM, a Ki: 31.4 nM for human A <sub>3</sub> receptor and an IC <sub>50</sub> : 120 nM for CHO cells).
Targets(IC <sub>50</sub> )	Others, Adenosine Receptor
In vitro	MRS-1191 is found to be competitive in saturation binding studies using the agonist radioligand [ <sup>125</sup> I]AB-MECA (N <sup>6</sup> -(4-amino-3-iodobenzyl)adenosine-5'-N-methylbromide) at cloned human brain A <sub>3</sub> receptor expressed in HEK-293 cells. The effects of putative A <sub>3</sub> 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 <sub>3</sub> receptor vs human A <sub>1</sub> 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)
In vivo Formulation	10% DMSO+90% Corn Oil: 3.3 mg/mL (6.91 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	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

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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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

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

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