

MRS-1706

Chemical Properties

CAS No. : 264622-53-9

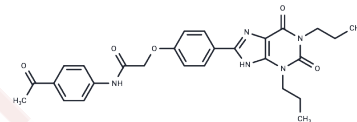
Formula: C₂₇H₂₉N₅O₅

Molecular Weight: 503.55

Keep away from moisture

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-1706 has K_i values of 1.39, 112, 157, and 230 nM for human A₂B, A₂A, A₁, and A₃ receptors respectively. MRS-1706 is an effective and selective adenosine A₂B receptor inverse agonist.

Targets(IC₅₀) Adenosine Receptor

Solubility Information

Solubility DMSO: 6.4 mg/mL (12.71 mM), Sonication and heating are recommended.
H₂O: < 0.1 mg/mL (insoluble),
(< 1 mg/ml refers to the product slightly soluble or insoluble)

In vivo Formulation 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (1.99 mM), Sonication is recommended.
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.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9859 mL	9.9295 mL	19.859 mL
5 mM	0.3972 mL	1.9859 mL	3.9718 mL
10 mM	0.1986 mL	0.993 mL	1.9859 mL
50 mM	0.0397 mL	0.1986 mL	0.3972 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.

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

Li Q, et al. ZM241385, DPCPX, MRS1706 are inverse agonists with different relative intrinsic efficacies on constitutively active mutants of the human adenosine A2B receptor. J Pharmacol Exp Ther. 2007 Feb;320(2):637-45.

Desai A, et al. Adenosine A2A receptor stimulation increases angiogenesis by down-regulating production of the antiangiogenic matrix protein thrombospondin 1. Mol Pharmacol. 2005 May;67(5):1406-13.

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