

AGI-24512

Chemical Properties

CAS No. : 2201066-53-5

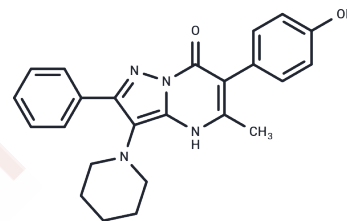
Formula: C₂₄H₂₄N₄O₂

Molecular Weight: 400.47

Store at low temperature

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	AGI-24512 is a potent inhibitor of methionine adenylyltransferase 2α (MAT2A) (IC ₅₀ : 8 nM). AGI-24512 shows antiproliferative activity in MTAP-deficient cancer cells. AGI-24512 inhibits MAT2A, which causes DNA damage in MTAP, and is often used in conjunction with anticancer compounds in cancer research.
Targets(IC ₅₀)	Methionine Adenosyltransferase (MAT), DNA
In vitro	MAT2A inhibitor AGI-24512 significantly blocked the proliferation of MTAP-deficient cancer cells in vitro[1].
In vivo	MAT2A inhibitor AGI-24512 showed poor bioavailability and short half-life in rats[2].

Solubility Information

Solubility	DMSO: 80 mg/mL (199.77 mM), Sonication is recommended. H ₂ O: < 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: 3.3 mg/mL (8.24 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

	1mg	5mg	10mg
1 mM	2.4971 mL	12.4853 mL	24.9707 mL
5 mM	0.4994 mL	2.4971 mL	4.9941 mL
10 mM	0.2497 mL	1.2485 mL	2.4971 mL
50 mM	0.0499 mL	0.2497 mL	0.4994 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

Kalev P, et al. MAT2A Inhibition Blocks the Growth of MTAP-Deleted Cancer Cells by Reducing PRMT5-Dependent mRNA Splicing and Inducing DNA Damage. *Cancer Cell*. 2021 Feb 8;39(2):209-224.e11.

Konteatis Z, et al. Discovery of AG-270, a First-in-Class Oral MAT2A Inhibitor for the Treatment of Tumors with Homozygous MTAP Deletion. *J Med Chem*. 2021 Apr 22;64(8):4430-4449.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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