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Produktinformation



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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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MT-DADMe-ImmA

Chemical Properties

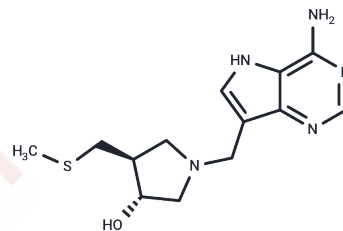
CAS No. : 653592-04-2

Formula: C₁₃H₁₉N₅O₅

Molecular Weight: 293.39

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	MT-DADMe-ImmA (MTDIA) is an inhibitor of human 5'-methylthioadenosine phosphorylase (MTAP, K _i : 90 pM).
Targets(IC ₅₀)	Others
In vitro	Treatment of cultured cells with MTA and MT-DADMe-ImmA inhibit MTAP, increase cellular MTA concentrations, decrease polyamines, and induce apoptosis in FaDu and Cal27, two head and neck squamous cell carcinoma cell lines. MT-DADMe-ImmA alone does not induce apoptosis in any cell line [2].
In vivo	MTAP activity slowly returns, giving a biological half-life for the action of oral MT-DADMe-ImmA of 6.3 days. The time-dependent growth of FaDu tumors in immunodeficient mice is suppressed by oral or intraperitoneal treatment with MT-DADMe-ImmA [2].
Cell Research	Cell viability is evaluated using the Alamar Blue assay. Cells are seeded onto 96-well plates at a density of 10 ⁴ cells/well and incubated with increasing concentrations of MT-DADMe-ImmA (100 pM to 100 μM) for 4 days at fixed MTA concentrations (0, 5, 10, and 20 μM) [2].
Animal Research	Tumors were established in mice for 5 days prior to oral or intraperitoneal treatments with MT-DADMe-ImmA. Mice are treated with an oral dose of 21 mg/kg or an intraperitoneal dose of 5 mg/kg/day MT-DADMe-ImmA [2].

Solubility Information

Solubility	DMSO: 50 mg/mL (170.42 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.4084 mL	17.0422 mL	34.0843 mL
5 mM	0.6817 mL	3.4084 mL	6.8169 mL
10 mM	0.3408 mL	1.7042 mL	3.4084 mL
50 mM	0.0682 mL	0.3408 mL	0.6817 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

Evans GB, et al. Second generation transition state analogue inhibitors of human 5'-methylthioadenosine phosphorylase. J Med Chem. 2005 Jul 14;48(14):4679-89.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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