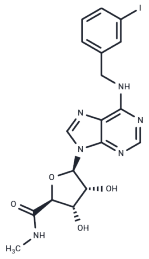
Data Sheet (Cat.No.T7188)

TargetMol

Piclidenoson

Chemical Properties



CAS No. : 152918-18-8

Formula: C18H19IN6O4

Molecular Weight: 510.29

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	Piclidenoson (CF-101), a selective agonist of adenosine A3 receptor(EC50 values of 0.11 μM), induces robust anti-inflammatory effect in psoriasis patients.
Targets(IC50)	Apoptosis,Adenosine Receptor
In vitro	Piclidenoson inhibited the proliferation of HaCat cells through deregulation of the NF-κB signaling pathway, leading to a decrease in interleukin-17 and interleukin-23 expression levels[1].
Cell Research	[3H]-Thymidine incorporation assay was used to evaluate cell growth.?HaCat cells (2500 cells/well) were incubated with piclidenoson 10?nM and MRS 1523 (50?nM) in 96-well plate for 48 hours.?For the last 24 hours of incubation, each well was pulsed with 1?mCi [3H]-thymidine.?Cells were harvested, and the [3H]-thymidine uptake was determined in an LKB liquid scintillation counter (LKB, Piscataway, NJ, USA).?These experiments were repeated at least 4 times[1].

Solubility Information

Solubility	DMSO: 60 mg/mL (117.58 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (3.92 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	1.9597 mL	9.7983 mL	19.5967 mL
5 mM	0.3919 mL	1.9597 mL	3.9193 mL
10 mM	0.196 mL	0.9798 mL	1.9597 mL
50 mM	0.0392 mL	0.196 mL	0.3919 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

Cohen S , Barer F , Itzhak I , et al. Inhibition of IL-17 and IL-23 in Human Keratinocytes by the A 3 Adenosine Receptor Agonist Piclidenoson[J]. Journal of Immunology Research, 2018, 2018(1):1-8.
Abedi H , Aghaei M , Panjehpour M , et al. Mitochondrial and caspase pathways are involved in the induction of apoptosis by IB-MECA in ovarian cancer cell lines[J]. Tumor Biology, 2014, 35(11):11027-11039.