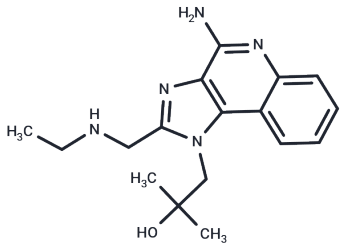
Data Sheet (Cat.No.T15371)

TargetMol
YOUR TARGET MOLECULES

Gardiquimod

Chemical Properties



CAS No. : 1020412-43-4

Formula: C17H23N5O

Molecular Weight: 313.4

Appearance: no data available

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

Biological Description

Description	Gardiquimod could inhibit HIV-1 infection of macrophages and activated peripheral blood mononuclear cells. Gardiquimod is an imidazoquinoline analog and is a TLR7/8 agonist. When used at concentrations below 10μM, Gardiquimod specifically activates TLR7.
Targets(IC50)	TLR,HIV Protease
In vitro	Administration of 6-60?μM Gardiquimod obviously inhibits HIV-1 reverse transcriptase cDNA synthesis[1].
In vivo	Gardiquimod (1 mg/kg per mouse; i.p.; daily for 7 days) in combination with Dendritic cells (DCs) enhance the anti-tumor effects of NK cells[2].

Solubility Information

Solubility	DMSO: 18 mg/mL (57.43 mM) DMF: 18 mg/mL (57.43 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1908 mL	15.9541 mL	31.9081 mL
5 mM	0.6382 mL	3.1908 mL	6.3816 mL
10 mM	0.3191 mL	1.5954 mL	3.1908 mL
50 mM	0.0638 mL	0.3191 mL	0.6382 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

Buitendijk M, et al. Gardiquimod: a Toll-like receptor-7 agonist that inhibits HIV type 1 infection of human macrophages and activated T cells. AIDS Res Hum Retroviruses. 2013 Jun;29(6):907-18.

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