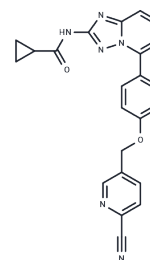


GLPG0634 analog

Chemical Properties

CAS No. :	1206101-20-3
Formula:	C ₂₃ H ₁₈ N ₆ O ₂
Molecular Weight:	410.43
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	GLPG0634 analog (GLPG0634 analogue) is a specific JAK1 inhibitor with IC ₅₀ of 10/28/810/116 nM for JAK1/2/3 and TYK2, respectively.
Targets(IC ₅₀)	JAK, Tyrosine Kinases
In vitro	In multiple cell lines, GLPG0634 inhibited IFN- α B2-induced JAK1/TYK2 type II receptor signaling and IL-2/4-induced JAK1/JAK3/ γ c signaling (IC ₅₀ : 150-760 nM). At the cellular level, GLPG0634 was more selective for JAK1-containing JAK/STAT signaling than JAK2 kinase. In addition, GLPG0634 inhibited the proliferation of Th1/Th2/Th17 cells.
In vivo	In multiple cell lines, GLPG0634 inhibited IFN- α B2-induced JAK1/TYK2 type II receptor signaling and IL-2/4-induced JAK1/JAK3/ γ c signaling (IC ₅₀ : 150-760 nM). At the cellular level, GLPG0634 was more selective for JAK1-containing JAK/STAT signaling than JAK2 kinase. In addition, GLPG0634 inhibited the proliferation of Th1/Th2/Th17 cells.
Kinase Assay	EC ₅₀ values of the test compounds are calculated from serial dilution series ranging from 200 to 0.1 μ M. Cells are seeded in 96-well plates at a density of 5,000 cells per well in 100 μ L medium. The next day, 100 μ L medium containing each test compound is added. Cells are incubated for 16 h, fixed and processed for automated microscopy. EC ₅₀ estimates are calculated using four-parameter log-logistic fit with the package drc [1].

Solubility Information

Solubility	DMSO: 7.5 mg/mL (18.27 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4365 mL	12.1823 mL	24.3647 mL
5 mM	0.4873 mL	2.4365 mL	4.8729 mL
10 mM	0.2436 mL	1.2182 mL	2.4365 mL
50 mM	0.0487 mL	0.2436 mL	0.4873 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

Van Rompaey L, et al. J Immunol. 2013, 191(7), 3568-3577.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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