

GSK2245035

Chemical Properties

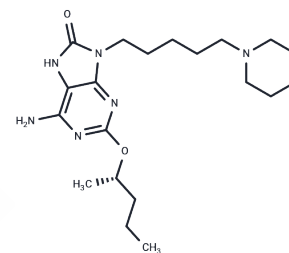
CAS No. : 1207629-49-9

Formula: C₂₀H₃₄N₆O₂

Molecular Weight: 390.52

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	GSK2245035 is a highly selective intranasal TLR7 agonist with preferential Type-1 interferon (IFN)-stimulating properties (pEC50s: 9.3 and 6.5 for IFN α and TFN α). It effectively suppresses allergen-induced Th2 cytokine production in human peripheral blood cell cultures.
Targets(IC50)	Others,IFNAR,TLR,TNF
In vitro	In a dose-dependent manner,GSK2245035 (0.01, 0.1, 1, 10, 100, 1000, 10000 nM;?6 days) reduces levels of the Th2 cytokines IL-5 and IL-13 released in response to Timothy grass or house dust mite in human PBMC cultures derived from individuals allergic to these allergens.
In vivo	GSK2245035 (3, 30, 300, 3000 ng/kg; 6 hours) treatment can make plasma IP-10 provided the most sensitive biomarker of target engagement with raised levels of this chemokine detected at doses of 30 ng/kg and above in the cynomolgus monkey.? GSK2245035 (i.n.; 0.03-1 mg/kg; 6 hours) makes dose-related increasing in IFN α levels in serum at doses of 0.3 mg/kg and above at the 2 h time point which had subsided at 6 h.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5607 mL	12.8034 mL	25.6069 mL
5 mM	0.5121 mL	2.5607 mL	5.1214 mL
10 mM	0.2561 mL	1.2803 mL	2.5607 mL
50 mM	0.0512 mL	0.2561 mL	0.5121 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

Biggadike K, et al. Discovery of 6-Amino-2-[[[(1S)-1-methylbutyl]oxy]-9-[5-(1-piperidinyl)pentyl]-7,9-dihydro-8H-purin-8-one (GSK2245035), a Highly Potent and Selective Intranasal Toll-Like Receptor 7 Agonist for the Treatment of Asthma. J Med Chem. 2016 Mar 10;59(5):1711-26.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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