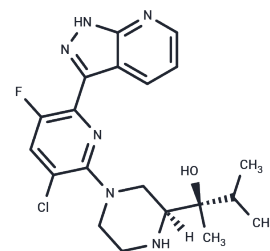


VTX-27

Chemical Properties

CAS No. : 1321924-70-2
Formula: C₂₀H₂₄ClFN₆O
Molecular Weight: 418.9
Appearance: no data available
Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	VTX-27 is a selective inhibitor of protein kinase C θ (PKC θ) (Kis: 0.08 nM and 16 nM for PKC θ and PKC δ).
Targets(IC ₅₀)	PKC
In vitro	It has also been found that VTX-27 has good selectivity to other PKC family members, especially the classic isoforms (except for PKC β I, >1000 times, 200 times) and atypical isoforms (>10000 times). As expected, it is more challenging to obtain selectivity for more closely related novel PKC family members, which is 200 times more selective than PKC δ .
In vivo	VTX-27 shows the best PK profile with low clearance (7 mL/min/kg), good oral bioavailability (65%), and long half-life (4.7 h). A single dose of VTX-27 is administered orally at 6.25, 12.5, 25, and 50 mg/kg (e.g., at 25 mg/kg C _{max} concentration 700 ng/mL) and demonstrates potent dose-dependent inhibition of IL-2 production.

Solubility Information

Solubility	DMSO: 125 mg/mL (298.40 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	2.3872 mL	11.936 mL	23.872 mL
5 mM	0.4774 mL	2.3872 mL	4.7744 mL
10 mM	0.2387 mL	1.1936 mL	2.3872 mL
50 mM	0.0477 mL	0.2387 mL	0.4774 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

Jimenez JM, et al. Design and optimization of selective protein kinase C θ (PKC θ) inhibitors for the treatment of autoimmune diseases. J Med Chem. 2013 Mar 14;56(5):1799-810.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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