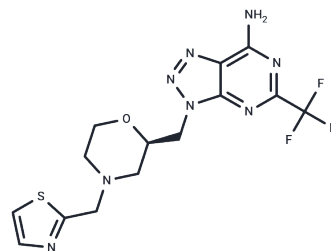


PF-04957325

Chemical Properties

CAS No. : 1305115-80-3
Formula: C₁₄H₁₅F₃N₈O₅
Molecular Weight: 400.38
Appearance: no data available
Storage: store at low temperature, keep away from direct sunlight
Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	PF-04957325 is a potent and selective inhibitor of PDE8. PF-04957325 has an IC ₅₀ of 0.7 nM for PDE8A and 0.3 nM for PDE8B. PF-04957325 can be used to study autoimmune encephalomyelitis.
Targets(IC ₅₀)	PDE
In vitro	The PDE8 selective inhibitor PF-04957325 exhibits an IC ₅₀ of 0.7 nM for PDE8A and 0.2 nM for PDE8B, while its IC ₅₀ for all other PDE isoforms is greater than 1.5 μM [3]. Treatment with PF-04957325 in WT Leydig cells or MA10 cells increases steroid production, but has no effect in PDE8A(-/-)/B(-/-) double knockout cells, indicating the drug's specificity [4].

Solubility Information

Solubility	DMSO: 80 mg/mL (200 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	2.4976 mL	12.4881 mL	24.9763 mL
5 mM	0.4995 mL	2.4976 mL	4.9953 mL
10 mM	0.2498 mL	1.2488 mL	2.4976 mL
50 mM	0.050 mL	0.2498 mL	0.4995 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

Vang AG, et al. Differential Expression and Function of PDE8 and PDE4 in Effector T cells: Implications for PDE8 as a Drug Target in Inflammation. Front Pharmacol. 2016 Aug 23;7:259.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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