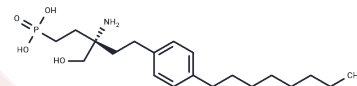


(S)-FTY720-phosphonate

Chemical Properties

CAS No. :	1142015-10-8
Formula:	C ₂₀ H ₃₆ NO ₄ P
Molecular Weight:	385.48
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	FTY720 (S)-Phosphate, an S1P receptor 1 (S1PR1) agonist, is utilized in studying acute inflammatory diseases, including acute lung injury.
Targets(IC50)	LPL Receptor
In vitro	FTY720 (S)-Phosphate acts as an S1PR1 agonist, sustaining its protein expression and reinforcing the endothelial cell barrier in human pulmonary arteries through S1PR1 without promoting its ubiquitination. Moreover, at concentrations ranging from 0.01 to 50 μM, FTY720 (S)-Phosphate diminishes β-arrestin association with S1PR1 [1].
In vivo	FTY720 (S)-Phosphate (0.5 mg/kg, i.p.) maintains S1PR1 expression, protects against bleomycin-induced acute lung injury (ALI), and reduces leukocyte infiltration in the lung tissues of bleomycin-injured mice [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5942 mL	12.9708 mL	25.9417 mL
5 mM	0.5188 mL	2.5942 mL	5.1883 mL
10 mM	0.2594 mL	1.2971 mL	2.5942 mL
50 mM	0.0519 mL	0.2594 mL	0.5188 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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