FTY720 Phosphate
Item No. 10008639

CAS Registry No.: 402615-91-2
Formal Name: 2-amino-2-[2-(4-octylphenyl)ethyl]-1,3-propanediol, mono dihydrogen phosphate ester

Synonym: FTY720P
MF: C19H34NO5P
FW: 387.5
Purity: ≥98%
Stability: ≥2 years at -20°C

Laoratory Procedures

For long-term storage, we suggest that FTY720 phosphate be stored as supplied at -20°C. It should be stable for at least two years.

FTY720 phosphate is supplied as a crystalline solid. A stock solution may be made by dissolving the FTY720 phosphate in an organic solvent purged with an inert gas. FTY720 phosphate is soluble in chloroform at a concentration of approximately 0.5 mg/ml.

FTY720 is a derivative of ISP-1 (myriocin), a fungal metabolite of the Chinese herb Isaria sinclairii as well as a structural analog of sphingosine. It is a novel immune modulator that prolongs allograft transplant survival in numerous models by inhibiting lymphocyte emigration from lymphoid organs.1 In vivo, FTY720 is phosphorylated by sphingosine kinase to the physiologically active phosphoric acid ester.2,3 FTY720 phosphate acts as a potent agonist at four of the sphingosine-1-phosphate (S1P) receptors (S1P1, S1P3, S1P4, and S1P5), with IC50 values of 0.2-6 nM.2,4

References

Related Products
For a list of related products please visit: www.caymanchem.com/catalog/10008639

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY; NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Material Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY
Cayman Chemical Company makes no warranty or guarantee of any kind, whether written or oral, expressed or implied, including without limitation, any warranty of fitness for a particular purpose, suitability and merchantability, which extends beyond the description of the chemicals hereof. Cayman warrants only to the original customer that the material will meet our specifications at the time of delivery. Cayman will carry out its delivery obligations with due care and skill. Thus, in no event will Cayman have any obligation or liability, whether in tort (including negligence) or in contract, for any direct, indirect, incidental or consequential damages, even if Cayman is informed about their possible existence.

Buyer’s exclusive remedy and Cayman’s sole liability hereunder shall be limited to a refund of the purchase price, or at Cayman’s option, replacement, at no cost to Buyer, of all material that does not meet our specifications. Said refund or replacement is conditioned on Buyer giving written notice to Cayman within thirty (30) days after arrival of the material at its destination. Failure of Buyer to give such notice within thirty (30) days shall constitute a waiver by Buyer of all claims hereunder with respect to said material.

For further details, please refer to our Warranty and Limitation of Remedy located on our website and in our catalog.