Cat No. 14-F83

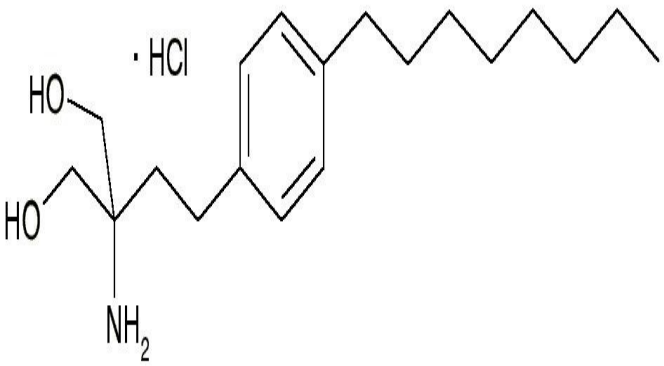
FTY720

5 mg

For research purposes only

FTY720 is a potent sphingosine-1-phosphate (S1P) receptors agonist that reverses the effects of BCR-ABL kinase. It is phosphorylated by sphingosine kinase, which then acts as a potent agonist at four of the sphingosine-1-phosphate (S1P) receptors ($S1P_1$, $S1P_3$, $S1P_4$, and $S1P_5$.) FTY720 is a novel immunomodulating agent that prolongs allograft transplant survival in numerous models by inhibiting lymphocyte emigration from lymphoid organs.

TECHNICAL INFORMATION



Other Names: Fingolimod, Gilenia

Chemical Formula: $C_{19}H_{33}NO_2 \cdot HCl$

CAS Number: 162359-56-0

Molecular Weight: 343.9

Purity: >98%

Appearance: a crystalline solid

Solubility: DMSO

STORAGE AND HANDLING

Storage: Store at 4°C and protected from light. Following reconstitution, store aliquots at -20°C.

Stability: Stock solutions stable at -20°C for up to 2 years.

Shipping Conditions: Shipped at room temperature.

PRODUCT USE

Soluble in DMSO at 100 mg/ml. If precipitate is observed, vortex for 5 minutes. For most cells, the maximum tolerance to DMSO is less than 0.5%.

REFERENCES

1. Chiba et al. (2006) Role of sphingosine 1-phosphate receptor type 1 in lymphocyte egress from secondary lymphoid tissues and thymus. Cell Mol Immunol. 3 (1):11-9.
2. Zheng et al. (2010) PTEN- and p53-mediated apoptosis and cell cycle arrest by FTY720 in gastric cancer cells and nude mice. J Cell Biochem. 111(1):218-28.
3. Liu et al. (2010) FTY720 shows promising in vitro and in vivo preclinical activity by downmodulating Cyclin D1 and phospho-Akt in mantle cell lymphoma. Clin Cancer Res. 16(12):3182-92.