

FTY720

Catalogue Number : 1625605

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Synonyms: Fingolimod hydrochloride, Fty-720, Fingolimod HCl

Chemical Name: 2-amino-2-[2-(4-octylphenyl)ethyl]propane-1,3-diol;hydrochloride

Molecular Formula: C₁₉H₃₃NO₂ · HCl

Molecular Weight: 343.9

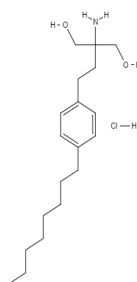
CAS Number: 162359-56-0

Purity: ≥98%

Applications: FA

Formulation: Crystalline solid

Storage: Product should be kept at -20°C.



Description

FTY720 is a sphingosine-1-phosphate receptor modulator that sequesters lymphocytes in lymph nodes, inhibiting their contribution to autoimmune responses. It is derived from myriocin (ISP-1), a fungal metabolite. FTY720 is also reported to be a cPLA2 inhibitor, a ceramide synthase inhibitor, and a cannabinoid receptor antagonist.

Preparation & Storage

Soluble in organic solvents such as ethanol or DMSO. DMSO up to 20mg/ml.

References

1. Brinkmann, V., Davis, M. D., Heise, C. E., Albert, R., Cottens, S., Hof, R., ... Lynch, K. R. (2002). The immune modulator FTY720 targets sphingosine 1-phosphate receptors. *Journal of Biological Chemistry*, 277(24), 21453-21457.
2. Grämler, M. H., Goetzl, E. J. (2004). The immunosuppressant FTY720 down-regulates sphingosine 1-phosphate G-protein-coupled receptors. *The FASEB journal*, 18(3), 551-553.
3. Chiba, K., Yanagawa, Y., Masubuchi, Y., Kataoka, H., Kawaguchi, T., Ohtsuki, M., Hoshino, Y. (1998). FTY720, a novel immunosuppressant, induces sequestration of circulating mature lymphocytes by acceleration of lymphocyte homing in rats. I. FTY720 selectively decreases the number of circulating mature lymphocytes by acceleration of lymphocyte homing. *The Journal of Immunology*, 160(10), 5037-5044.