# Product Specification Sheet

**Product Name:** FTY720 / Fingolimod  
**Catalog Number:** C3897-5 (powder)  
**Package Size:** 5 mg  
**Chemical Formula:** C_{15}H_{33}NO_2  
**CAS #:** 162359-55-9  
**Molecular Weight:** 307.47  
**Purity:** >98%  
**Formulation:** White solid  
**Solubility:** Soluble in DMSO up to 100 mM  
**Chemical Name:** 2-amino-2-(4-octylphenethyl)propane-1,3-diol  
**Storage:** Store solid powder at 4°C desiccated; Store DMSO solution at -20°C.

## Handling
- For C3897-5 (powder), add 1.626 mL of DMSO to make 10 mM solution.
- For C3897-5s, before open the vial, centrifuge the vial at 500rpm x 1 min in a 50 mL conical tube to ensure full sample recovery.

## Biological Activity
FTY720, also named Fingolimod (trade name Gilenya), is an immunomodulating drug approved by FDA in 2010 for treating multiple sclerosis. FTY720 is a derivative of ISP-1 (myriocin), a fungal metabolite of the Chinese herb Iscaria 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. FTY720 is phosphorylated by sphingosine kinase, which then acts as a potent agonist at four of the sphingosine-1-phosphate (S1P) receptors (S1P1, S1P3, S1P4, and S1P5). Down-regulation of S1P1 receptors on T and B lymphocytes by FTY720 results in defective egress of these cells from spleen, lymph nodes, and Peyer’s patch. FTY720 also enhances the activity of the sphingosine transporter Abcc1 and the leukotriene C4 transporter Abcc1 and inhibits cytosolic phospholipase A2 activity.

## Reference

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