

**DATA SHEET**

**Product Name:** Fingolimod

**Catalog #:** N-3025

**Alt:** CAS# 162359-56-0; 2-Amino-2-[2-(4-octylphenyl)ethyl]-1,3-propanediol, hydrochloride; FTY720

**Source:** Synthetic

**Molecular Mass:** 343.9 C<sub>19</sub>H<sub>33</sub>NO<sub>2</sub> • HCl

**Analysis:** >98% (TLC); NMR (Conforms)

**Supplied As:** White powder

**Resuspension:** May be dissolved in DMSO (100 mg/ml); or ethanol (40 mg/ml, warm)

**Storage:** Store desiccated as supplied at -20°C for up to 1 year. Store solutions at -20°C for up to 3 months.

**Description:** An analog of sphingosine which, when taken up into cells, is phosphorylated and acts as an agonist at sphingosine-1-phosphate receptors (S1P1/3)<sup>1</sup>. Potently inhibits regulatory T cell proliferation in vitro and in vivo<sup>2</sup>. Enhances microvascular remodeling via expansion of arterioles and capillary networks<sup>3</sup>. Potent immunomodulator<sup>4</sup>. Clinically effective agent for relapsing forms of multiple sclerosis<sup>5</sup>.

**References:**

1. Brinkmann, V., et al., (2002) J. Biol. Chem., *277*: 21453
2. Wolf, A.M., et al., (2009) J. Immunol., *183*: 3751
3. Awojoodu, A.O., et al., (2013) Proc. Natl. Acad. Sci. USA, *110*: 13785
4. Chiba, K., (2005) Pharmacol. Ther., *108*: 308
5. Ziemssen, T., et al., (2016) J. Neurol., *263*: 1053

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