

## Certificate of Analysis

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**Product Name:** FTY 720

**Catalog No.:** 6176

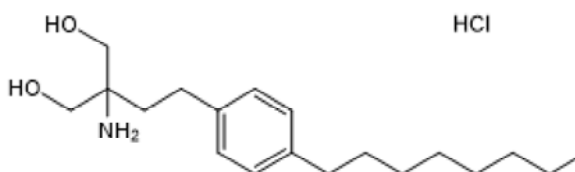
**Batch No.:** 1

CAS Number: 162359-56-0

IUPAC Name: 2-Amino-2-[2-(4-octylphenyl)ethyl]propane-1,3-diol hydrochloride

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>19</sub>H<sub>33</sub>NO<sub>2</sub>.HCl  
**Batch Molecular Weight:** 343.93  
**Physical Appearance:** White solid  
**Solubility:** water to 100 mM  
DMSO to 100 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**HPLC:** Shows 99.7% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	66.35	9.96	4.07
Found	66.22	10.24	4.04

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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**Description:**

FTY 720 is an S1P receptor agonist; undergoes phosphorylation by sphingosine kinase 2, which then binds S1P<sub>1,3,4</sub> and <sub>5</sub> receptors (EC<sub>50</sub> values are 0.3 - 0.6 nM for S1P<sub>1, 4</sub> and <sub>5</sub> and ~3 nM for S1P<sub>3</sub>). Immunosuppressant; sequesters lymphocytes in lymph nodes, reducing autoimmune response. Suppresses the development of EAE (an in vivo model of MS). Orally bioavailable and blood-brain barrier permeable.

**Physical and Chemical Properties:**

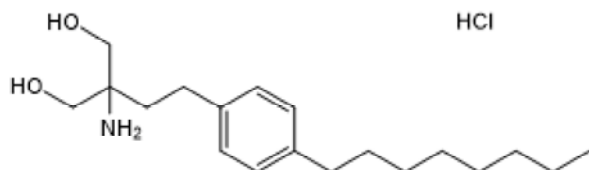
Batch Molecular Formula: C<sub>19</sub>H<sub>33</sub>NO<sub>2</sub>.HCl

Batch Molecular Weight: 343.93

Physical Appearance: White solid

**Minimum Purity:** ≥99%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

water to 100 mM

DMSO to 100 mM

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**

**Hopkins et al** (2011) ACS chemical neuroscience molecule spotlight on gil. (fingolimod; FTY720). ACS Chem. Neurosci. **2** 116. PMID: 22778861.

**Brinkmann et al** (2010) Fingolimod (FTY720): discovery and development of an oral drug to treat multiple sclerosis. Nat. Rev. Drug Discov. **9** 883. PMID: 21031003.

**Coelho et al** (2007) The immunomodulator FTY720 has a direct cytoprotective effect in oligodendrocyte progenitors. J.Pharmacol.Exp.Ther. **323** 626. PMID: 17726159.

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