azido-FTY720
Item No. 10008612

CAS Registry No.: 881914-35-8
Formal Name: 2-amino-2-[2-(4-(1-azido-2-octylphenyl)ethyl]-1,3-propanediol

**Chemical Structure**

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HO
\(\text{HO} \quad \text{N}_3\)
\(\text{HO} \quad \text{NH}_2\)
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**Laboratory Procedures**

For long term storage, we suggest that azido-FTY720 be stored as supplied at -20°C. It will be stable for at least two years.

azido-FTY720 is supplied as a solution in ethanol. To change the solvent, simply evaporate the ethanol under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as DMSO and dimethyl formamide purged with an inert gas can be used. The solubility of azido-FTY720 in these solvents is approximately 20 mg/ml.

azido-FTY720 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, the ethanolic solution of azido-FTY720 should be diluted with the aqueous buffer of choice. azido-FTY720 has a solubility of approximately 0.2 mg/ml in a 1:1 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

FTY720 is potent immunosuppressive agent 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. azido-FTY720 is a highly photoreactive analog of FTY720 that can be used to identify receptor binding sites for this ligand.

**References**


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