

Product Data Sheet

Product Name: azido-FTY720

Cat. No.: GC42891

Chemical Properties

Cas. No. 881914-35-8

SMILES CCCCCCCCc1ccc(CCC(N)(CO)CO)cc1CN=[N]=N

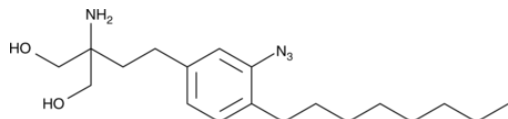
Formula C₁₉H₃₂N₄O₂ M.Wt 348.5

Solubility DMF: 20 mg/ml, DMSO: 20 mg/ml, Ethanol: 20 mg/ml, Ethanol: PBS (pH 7.2) (1:1): .2 mg/ml
Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

FTY720 is a derivative of ISP-1 (myriocin), a fungal metabolite of the Chinese herb *Iscaria sinclarii* 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. azido-FTY720 is a highly photoreactive analog of FTY720 that can be used to identify receptor binding sites for this ligand.

Caution: Product has not been fully validated for medical applications. For research use only.

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