

Product Data Sheet

Product Name: (S)-FTY720-phosphonate

Cat. No.: GC71271

Chemical Properties

Cas. No. 1142015-10-8

Formula $C_{20}H_{36}NO_4P$ M.Wt 385.48

Solubility DMSO : 25 mg/mL (64.85 mM);
ultrasonic and adjust pH to 2 with 1M
HCl; Hygroscopic DMSO has a
significant impact on the solubility of
product, please use newly opened
DMSO) Storage -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.

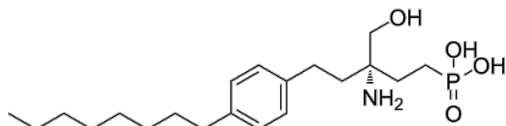
Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

Structure



Background

FTY720 (S)-Phosphate is an agonist of S1P receptor 1 (S1PR1), used in the research of acute inflammatory diseases such as acute lung injury.

FTY720 (S)-Phosphate is an agonist of S1PR1. FTY720 (S)-Phosphate (Tys, 1 μ M) maintains S1PR1 protein expression, enhances the human pulmonary artery endothelial cells barrier via S1PR1, but shows no effect on inducing ubiquitination of S1PR1. FTY720 (S)-Phosphate (0.01-50 μ M) also reduces β -arrestin recruitment to S1PR1^[1].

FTY720 (S)-Phosphate (0.5 mg/kg, i.p.) preserves S1PR1 expression in mouse lungs, is protective in bleomycin-induced acute lung injury (ALI) and attenuates lung tissue leukocyte infiltration in bleomycin-injured mice^[1].

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA