

Product Name : TD-139

Synonyms : TD139; TD 139

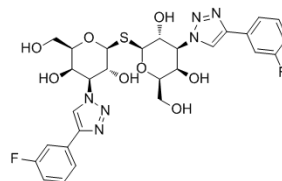
Cat No. : M11938

CAS Number : 1450824-22-2

Molecular Formula : C₂₈H₃₀F₂N₆O₈S

Formula Weight : 648.64

Chemical Name : β-D-Galactopyranoside, 3-deoxy-3-[4-(3-fluorophenyl)-1H-1,2,3-triazol-1-yl]-β-D-galactopyranosyl 3-deoxy-3-[4-(3-fluorophenyl)-1H-1,2,3-triazol-1-yl]-1-thio-



Description : TD-139 (TD139) is a highly potent, selective inhibitor of Galectin-3 (Gal-3) carbohydrate binding domain with K_i of 14 nM; reduces TGF-β1-induced β-catenin translocation to the nucleus, blocks β-catenin phosphorylation in vitro and in vivo; attenuates the late-stage progression of lung fibrosis in murine models; attenuates liver injury and milder infiltration of IFNγ- and IL-17- and -4-producing CD4(+) T cells, increases IL-10-producing CD4(+) T cells and F4/80(+) CD206(+) alternatively activated macrophages and prevents the apoptosis of liver-infiltrating MNCs in WT C57BL/6 mice. Cystic Fibrosis, Phase 2 Clinical

Pathway : Cytoskeleton/Cell Adhesion Molecules

Target : Galectin

Receptor : galectin-3

Solubility : DMSO: 1 mg/mL (Need ultrasonic); H₂O: < 5 mg/mL; Ethanol: 0.1 mg/mL (Need ultrasonic and warming)

SMILES : O[C@H]1([C@@H](N1N=NC2=CC=CC(F)=C2)=C1)[C@H]([C@@H](CO)O3O)[C@@H]3S[C@H]4[C@@H]([C@@H](N5N=NC6=CC=CC(F)=C6)=C5)[C@H]([C@@H](CO)O4)O)O

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Mackinnon AC, et al. Am J Respir Crit Care Med. 2012 Mar 1;185(5):537-46. | 2. Volarevic V, et al. Hepatology. 2012 Jun;55(6):1954-64. | 3. Volarevic V, et al. Eur J Immunol. 2015 Feb;45(2):531-43.