

Product Name	: M4284
Synonyms	: M-4284;M 4284
Cat No.	: M11539
CAS Number	: 1373346-85-0
Molecular Formula	: C ₂₃ H ₂₈ N ₂ O ₈
Formula Weight	: 460.48
Chemical Name	: N3,N5,3'-trimethyl-4'-(((3S,4R,6R)-3,4,5-trihydroxy-6-(hydroxymethyl)tetrahydro-2H-pyran-2-yl)oxy)-[1,1'-biphenyl]-3,5-dicarboxamide
Description	: M4284 (M-4284) is a high-affinity biphenyl mannoside FimH inhibitor with HAI of 16 nM in hemagglutination assay; reduces intestinal colonization of genetically diverse UPEC isolates, while simultaneously treating UTI, without notably disrupting the structural configuration of the gut microbiota; reduces UTI89 levels in the gut and urinary tracts of mice.
Pathway	: GPCR/G Protein
Target	: Antibacterial
Receptor	: Antibacterial
Solubility	: —
SMILES	: <chem>CC1=C(C=CC(=C1)C2=CC(=CC(=C2)C(=O)NC)C(=O)NC)OC3C(C(C(C(O3)CO)O)O)O</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Spaulding CN, et al. Nature. 2017 Jun 22;546(7659):528-532. | 2. Jarvis C, et al. ChemMedChem. 2016 Feb 17;11(4):367-73. | 3. Han Z, et al. J Med Chem. 2012 Apr 26;55(8):3945-59.