

TH1020

Chemical Properties

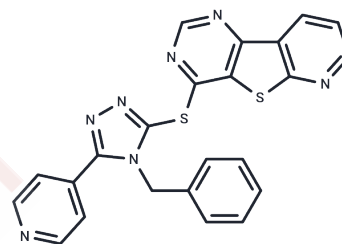
CAS No. : 1841460-82-9

Formula: C₂₃H₁₅N₇S₂

Molecular Weight: 453.54

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

| | |
|----------------------------|--|
| Description | TH1020 is a novel Inhibitor of Toll-Like Receptor 5 (TLR5)/Flagellin Complex with promising activity (IC ₅₀ = 0.85±0.12 μm) and specificity. |
| Targets(IC ₅₀) | Antibacterial,TLR |
| In vivo | TH1020 was repress the expression of downstream TNF-α signaling pathways mediated by the TLR5/flagellin complex formation.?Based on molecular docking simulation, TH1020 is suggested to compete with flagellin and disrupt its association with TLR5.? TH1020 provides a much-needed molecular probe for studying this important protein-protein interaction and a lead compound for identifying novel therapeutics targeting TLR5. |

Solubility Information

| | |
|------------|---|
| Solubility | DMSO: 4.54 mg/mL (10.01 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 2.2049 mL | 11.0244 mL | 22.0488 mL |
| 5 mM | 0.441 mL | 2.2049 mL | 4.4098 mL |
| 10 mM | 0.2205 mL | 1.1024 mL | 2.2049 mL |
| 50 mM | 0.0441 mL | 0.2205 mL | 0.441 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Lei Yan, et al. Pyrimidine Triazole Thioether Derivatives as Toll-Like Receptor 5 (TLR5)/Flagellin Complex Inhibitors. ChemMedChem. 2016 Apr 19;11(8):822-6.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only. Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481