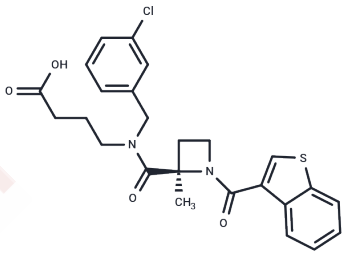
# Data Sheet (Cat.No.T15388)

TargetMol

## GLPG0974

### Chemical Properties



CAS No. : 1391076-61-1

Formula: C25H25ClN2O4S

Molecular Weight: 484.99

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 | GLPG0974 is an antagonist of FFA2/GPR43 with IC50 of 9 nM. |
| Targets(IC50) | GPCR |
| In vitro | GLPG0974 inhibits acetate-induced neutrophil migration strongly and inhibits CD11b activation-specific epitope [AE], a neutrophil-based pharmacodynamic marker, in a human whole blood assay[1]. |
| In vivo | GLPG0974(5 and 30 mg/kg; oral) exhibits good pharmacokinetic properties in rat with a bioavailability of 47% and dose-dependently increases the plasma exposure[1]. |

### Solubility Information

| | |
|---|---|
| Solubility | DMSO: 257 mg/mL (529.91 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
| In vivo Formulation | 10% DMSO+90% Corn Oil: 5 mg/mL (10.31 mM),Sonication is recommended.<br>*Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.* |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 1 mM | 2.0619 mL | 10.3095 mL | 20.619 mL |
| 5 mM | 0.4124 mL | 2.0619 mL | 4.1238 mL |
| 10 mM | 0.2062 mL | 1.0309 mL | 2.0619 mL |
| 50 mM | 0.0412 mL | 0.2062 mL | 0.4124 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

Pizzonero M, et al. Discovery and optimization of an azetidine chemical series as a free fatty acid receptor 2 (FFA2) antagonist: from hit to clinic. J Med Chem. 2014 Dec 11;57(23):10044-57.

Li M Y, Duan J Q, Wang X H, et al.Inulin Inhibits the Inflammatory Response through Modulating Enteric Glial Cell Function in Type 2 Diabetic Mellitus Mice by Reshaping Intestinal Flora.ACS Omega.2023