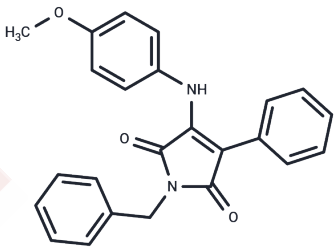
# Data Sheet (Cat.No.T27478)

GSK3987

## Chemical Properties



CAS No. : 264206-85-1

Formula: C24H20N2O3

Molecular Weight: 384.43

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 | GSK3987 is an LXR ligand. GSK3987 recruits the steroid receptor coactivator-1 to human LXRalpha and LXRbeta with EC50s of 40 nM. |
| Targets(IC50) | Liver X Receptor |
| In vitro | In primary human macrophages, GSK3987 (30, 100, 300, 1000 nM) increased the expression of ABCA1 and induces cellular cholesterol efflux to apoA1 particles in a dose-dependent manner. In human hepatoma (HepG2) cells, GSK3987 (6-1500 nM) increases the expression of SREBP-1c and induces triglyceride accumulation in a dose-dependent manner[1]. GSK3987 showed activity with EC50s of 0.08 μM, 50 nM, 40 nM for ABCA1, LXRα-SRC1, LXRβ-SRC1, respectively[1]. |

## Solubility Information

| | |
|---|---|
| Solubility | DMSO: 50 mg/mL (130.06 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 1 mM | 2.6013 mL | 13.0063 mL | 26.0125 mL |
| 5 mM | 0.5203 mL | 2.6013 mL | 5.2025 mL |
| 10 mM | 0.2601 mL | 1.3006 mL | 2.6013 mL |
| 50 mM | 0.052 mL | 0.2601 mL | 0.5203 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

Ranganathan PV, et al. Netrin-1-treated macrophages protect the kidney against ischemia-reperfusion injury and suppress inflammation by inducing M2 polarization. Am J Physiol Renal Physiol. 2013 Apr 1;304(7):F948-57.
Lin HR. Paeoniflorin acts as a liver X receptor agonist. J Asian Nat Prod Res. 2013;15(1):35-45.
Jaye MC, et al. Discovery of substituted maleimides as liver X receptor agonists and determination of a ligand-bound crystal structure. J Med Chem. 2005 Aug 25;48(17):5419-22.