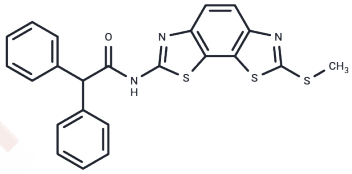
# Data Sheet (Cat.No.T27502)

TargetMol

## Gue1654

### Chemical Properties



CAS No. : 397290-30-1

Formula: C23H17N3OS3

Molecular Weight: 447.6

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 | Gue1654 is a selective OXE-R inhibitor that attenuates coronary artery ligation-induced ischemic myocardial injury and cardiomyocyte oxygen/glucose deprivation-induced injury in mice through activation of BCAT1.Gue1654 inhibits OXE-R-inhibited protein kinase C-ε (PKC-ε)/nuclear factor κB (NF-κB) signaling and apoptosis in cardiomyocytes. Gue1654 can be used to study cardiovascular disease. |
| Targets(IC50) | Others,NF-κB,PKC |

### Solubility Information

| | |
|---|---|
| Solubility | DMSO: 100 mg/mL (223.41 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
| In vivo Formulation | 10% DMSO+90% Corn Oil: 3.3 mg/mL (7.37 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 | 2.2341 mL | 11.1707 mL | 22.3414 mL |
| 5 mM | 0.4468 mL | 2.2341 mL | 4.4683 mL |
| 10 mM | 0.2234 mL | 1.1171 mL | 2.2341 mL |
| 50 mM | 0.0447 mL | 0.2234 mL | 0.4468 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

Blättermann S, et al. A biased ligand for OXE-R uncouples Gα and Gβγ signaling within a heterotrimer. Nat Chem Biol. 2012;8(7):631-638.
Lai Q,et al. Oxoeicosanoid receptor inhibition alleviates acute myocardial infarction through activation of BCAT1. Basic Res Cardiol. 2021 Jan 23;116(1):3.
Cossette C,et al. Biosynthesis and actions of 5-oxoeicosatetraenoic acid (5-oxo-ETE) on feline granulocytes. Biochem Pharmacol. 2015 Aug 1;96(3):247-55.