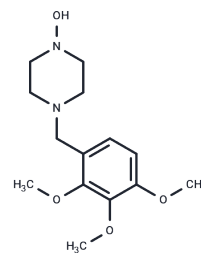


Trimetazidine-N-oxide

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 1644530-89-1 |
| Formula: | C ₁₄ H ₂₂ N ₂ O ₄ |
| Molecular Weight: | 282.34 |
| 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 | Trimetazidine-N-oxide, the major active metabolite of Trimetazidine, is a selective long-chain inhibitor of 3-ketoacyl coenzyme A thiolase (IC ₅₀ : 75 nM) with anti-oxidant, anti-inflammatory, antinociceptive, and gastroprotective properties. |
| Targets(IC ₅₀) | Others, Drug Metabolite |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 3.5418 mL | 17.7091 mL | 35.4183 mL |
| 5 mM | 0.7084 mL | 3.5418 mL | 7.0837 mL |
| 10 mM | 0.3542 mL | 1.7709 mL | 3.5418 mL |
| 50 mM | 0.0708 mL | 0.3542 mL | 0.7084 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

Sigmund G, et al. Doping control analysis of trimetazidine and characterization of major metabolites using mass spectrometric approaches. Drug Test Anal. 2014 Nov-Dec;6(11-12):1197-205.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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