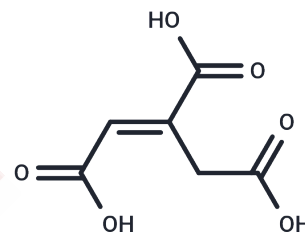


trans-Aconitic acid

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 4023-65-8 |
| Formula: | C ₆ H ₆ O ₆ |
| Molecular Weight: | 174.11 |
| 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 | Trans-Aconitic acid is normally present in normal human urine, and it has been suggested that is present in larger amounts with Reye's syndrome and organic aciduria. trans-Aconitic acid is a substrate of enzyme trans-aconitate 2-methyltransferase (EC 2.1.1.144). Trans-aconitate in the urine is a biomarker for the consumption of soy products.trans-Aconitic acid is an antimicrobial agent that blocks the transformation of Leishmania donovani amastigotes to prostigotes. |
| Targets(IC50) | ATPase,Endogenous Metabolite |

Solubility Information

| | |
|------------|--|
| Solubility | DMSO: 55 mg/mL (315.89 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|--|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|-----------|
| 1 mM | 5.7435 mL | 28.7175 mL | 57.435 mL |
| 5 mM | 1.1487 mL | 5.7435 mL | 11.487 mL |
| 10 mM | 0.5743 mL | 2.8717 mL | 5.7435 mL |
| 50 mM | 0.1149 mL | 0.5743 mL | 1.1487 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

Kar S , Kar K , Bhattacharya P K , et al. Experimental visceral leishmaniasis: role of trans-aconitic acid in combined chemotherapy.[J]. Antimicrobial Agents and Chemotherapy, 1993, 37(11):2459-2465.

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