

Thiodiglycollic acid

Chemical Properties

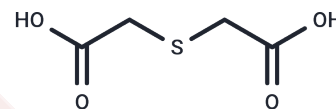
CAS No. : 123-93-3

Formula: C₄H₆O₄S

Molecular Weight: 150.15

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 | Thiodiglycollic acid is a ligand metabolite. It was found in the urine of humans exposed to vinyl chloride. |
| Targets(IC50) | Others |

Solubility Information

| | |
|------------|---|
| Solubility | DMSO: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|-----------|------------|
| 1 mM | 6.660 mL | 33.300 mL | 66.6001 mL |
| 5 mM | 1.332 mL | 6.660 mL | 13.320 mL |
| 10 mM | 0.666 mL | 3.330 mL | 6.660 mL |
| 50 mM | 0.1332 mL | 0.666 mL | 1.332 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

- Liu XD, Zhao W, Pan XF, Yan HF. [Determination of thiodiglycolic acid in urine by ion chromatography with solidphase extraction]. Zhonghua Lao Dong Wei Sheng Zhi Ye Bing Za Zhi. 2016 Apr 20;34(4):297-9. doi: 10.3760/cma.j.issn.1001-9391.2016.04.017. Chinese. PubMed PMID: 27514269.
- Xiao Q, Fu Z, Meng C, Xuan Y, Qin W. [Determination of thiodiglycolic acid in urine with gas chromatography-mass spectrometer]. Zhonghua Lao Dong Wei Sheng Zhi Ye Bing Za Zhi. 2015 Jun;33(6):474-6. Chinese. PubMed PMID: 26653390.
- Baygildiev T, Braun A, Stavrianidi A, Rodin I, Shpigun O, Rybalchenko I, Ananieva I. "Dilute-and-shoot" rapid-separation liquid chromatography tandem mass spectrometry method for fast detection of thiodiglycolic acid in urine. Eur J Mass Spectrom (Chichester). 2015;21(5):733-8. doi: 10.1255/ejms.1387. PubMed PMID: 26579929.
- Puccio G, Brambilla P, Conti M, Bartolini D, Noonan D, Albin A. Surface-activated chemical ionization-electrospray mass spectrometry in the analysis of urinary thiodiglycolic acid. Rapid Commun Mass Spectrom. 2013 Feb 15;27(3):476-80. doi: 10.1002/rcm.6471. PubMed PMID: 23280980.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481