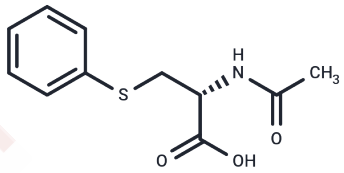
Data Sheet (Cat.No.T73940)

TargetMol

S-Phenylmercapturic acid

Chemical Properties



CAS No. : 4775-80-8

Formula: C11H13NO3S

Molecular Weight: 239.29

Storage: Keep away from moisture
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	S-Phenylmercapturic acid is a metabolite of benzene that can be used as a biomarker to assess benzene exposure.
Targets(IC50)	Drug Metabolite

Solubility Information

Solubility	DMSO: 80 mg/mL (334.32 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.179 mL	20.8951 mL	41.7903 mL
5 mM	0.8358 mL	4.179 mL	8.3581 mL
10 mM	0.4179 mL	2.0895 mL	4.179 mL
50 mM	0.0836 mL	0.4179 mL	0.8358 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

Farmer PB, et al. The use of S-phenylmercapturic acid as a biomarker in molecular epidemiology studies of benzene. Chem Biol Interact. 2005 May 30;153-154:97-102.

Mendes MPR, Silveira JN, Andre LC. An efficient analytical method for determination of S-phenylmercapturic acid in urine by HPLC fluorimetric detector to assessing benzene exposure. J Chromatogr B Analyt Technol Biomed Life Sci. 2017 Sep 15;1063:136-140.

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