

Thioredoxin reductase peptide acetate

Chemical Properties

CAS No. :

Formula: C₆₈H₁₁₀N₁₈O₂₀S₂

Molecular Weight: 1563.84

Trp-Gly-Leu-Gly-Gly-Thr-Cys-Val-Asn-Val-Gly-Cys-Ile-Pro-Lys(acetate salt)

Keep away from moisture

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	Thioredoxin reductase peptide acetate corresponds to residues 53-67 in thioredoxin reductase (TrxR), used in thioredoxin reductase research. Mammalian thioredoxin reductase (TR) catalyzes the reduction of the redox-active disulfide bond of thioredoxin (Trx) and is similar in structure and mechanism to glutathione reductase except for a C-terminal 16-amino acid extension containing a rare vicinal selenylsulfide bond.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 2.5 mM, Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.6395 mL	3.1973 mL	6.3945 mL
5 mM	0.1279 mL	0.6395 mL	1.2789 mL
10 mM	0.0639 mL	0.3197 mL	0.6395 mL
50 mM	0.0128 mL	0.0639 mL	0.1279 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

Jan YH, et al. Cross-linking of thioredoxin reductase by the sulfur mustard analogue mechlorethamine(methylbis (2-chloroethyl)amine) in human lung epithelial cells and rat lung: selective inhibition of disulfide reduction but not redox cycling. Chem Res Toxicol. 2014 Jan 21;27(1):61-75.

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