
Product Data Sheet

Product Name: Thioredoxin reductase peptide TFA

Cat. No.: GC37783

Chemical Properties

Cas. No.

Formula $C_{68}H_{107}F_3N_{18}O_{20}S_2$ M.Wt 1617.81

Solubility DMSO: ≥ 100 mg/mL (61.81 mM) Storage Store at $-20^{\circ}C$

General tips For obtaining a higher solubility , please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Background

Thioredoxin reductase peptide TFA corresponds to residues 53-67 in thioredoxin reductase (TrxR), used in thioredoxin reductase research. Thioredoxin reductase acts as a reductant of disulfide-containing proteins and plays crucial role in cellular antioxidant defense[1][2].

[1]. 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. [2]. Valette O, et al. Biochemical Function, Molecular Structure and Evolution of an Atypical Thioredoxin Reductase from *Desulfovibrio vulgaris*. Front Microbiol. 2017 Sep 29;8:1855.

Caution: Product has not been fully validated for medical applications. For research use only.

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