

Thioredoxin reductase peptide TFA

Cat. No.:	HY-P1948A		
Molecular Formula:	C ₆₈ H ₁₀₇ F ₃ N ₁₈ O ₂₀ S ₂		
Molecular Weight:	1617.81		
Sequence:	{Trp}{Gly}{Leu}{Gly}{Gly}{Thr}{Cys}{Val}{Asn}{Val}{Gly}{Cys}{Ile}{Pro}{Lys}		
Sequence Shortening:	WGLGGTCVNVGCIPIK		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-80°C	2 years
		-20°C	1 year
	In solvent	-80°C	6 months
		-20°C	1 month

BIOLOGICAL ACTIVITY

Description

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]}.

REFERENCES

- [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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