

## Recombinant human Thioredoxin

Catalog No: #AP71792



Package Size: #AP71792-1 20ug #AP71792-2 100ug #AP71792-3 1mg

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## Description

Product Name	Recombinant human Thioredoxin
Brief Description	Recombinant Protein
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:2-105aaSequence Info:Full Length
Other Names	ATL-derived factor ;ADFSurface-associated sulphhydryl protein ;SASP
Accession No.	P10599
Uniprot	P10599
GeneID	7295;
Calculated MW	38.6 kDa
Tag Info	N-terminal GST-tagged
Target Sequence	VKQIESKTAFAQEALDAAGDKLVVDFSATWCGPCKMIKPFHSLSEKYSNVIFLEVDVDDCQDVASECEVKCM PTFQFFKKGQKVGESGANKEKLEATINELV
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.  Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

## Background

Participates in various redox reactions through the reversible oxidation of its active center dithiol to a disulfide and catalyzes dithiol-disulfide exchange reactions. Plays a role in the reversible S-nitrosylation of cysteine residues in target proteins, and thereby contributes to the response to intracellular nitric oxide. Nitrosylates the active site Cys of CASP3 in response to nitric oxide (NO), and thereby inhibits caspase-3 activity. Induces the FOS,JUN AP-1 DNA-binding activity in ionizing radiation (IR) cells through its oxidation,reduction status and stimulates AP-1 transcriptional activity.ADF augments the expression of the interleukin-2 receptor TAC (IL2R,P55).

## References

Cloning and expression of a cDNA for human thioredoxin.Wollman E.E., D'Auriol L., Rimsky L., Shaw A., Jacquot J.-P., Wingfield P., Graber P., Dessarps F.J. Biol. Chem. 263:15506-15512(1988)Research Topic:Transport

Note: This product is for in vitro research use only