

## Recombinant Human Protein disulfide-isomerase

Catalog No: #AP72710



Package Size: #AP72710-1 20ug #AP72710-2 100ug #AP72710-3 1mg

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## Description

Product Name	Recombinant Human Protein disulfide-isomerase
Brief Description	Recombinant Protein
Host Species	Yeast
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:18-508aaSequence Info:Full Length
Other Names	Cellular thyroid hormone-binding protein;Prolyl 4-hydroxylase subunit betap55
Accession No.	P07237
Uniprot	P07237
GenelD	5034;
Calculated MW	57.3 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	DAPEEEDHVLVLRKSNFAEALAAHKYLLVEFYAPWCGHCKALAPEYAKAAGKLLKAEGSEIRLAKVDATEESDL AQQYGVRYPTIKFFRNGDTASPKEYTAGREADDIVNWLKKRTGPAATLTPDGAAAESLVESSEVAVIGFFKD VESDSAKQLQAAEAIDDIPFGITSNSDVFSKYQLDKDGVVLFKKFDEGRNNFEGEVTKENLLDFIKHNQLPLVI EFTEQTAPKIFGGEIKTHILLFLPKSVSDYDGKLSNFKTAAESFKGKILFIFIDSDHTDNQRILEFFGLKKEECPAV RLITLEEEMTKYKPESEELTAERITEFCHRFLGKIKPHLMSQELPEDWDKQPVKVLVGNFEDVAFDEKKNVF VEFYAPWCGHCKQLAPIWDKLGETYKDHENIVIAKMDSTANEVEAVKVHSPFTLKFFPASADRTVIDYNGERTL DGFKKFLESGGQDGAGDDDDLEEEAEEPDMEEEDDDQKAVKDEL
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

This multifunctional protein catalyzes the formation, breakage and rearrangement of disulfide bonds. At the cell surface, it acts as a reductase that cleaves disulfide bonds of proteins attached to the cell. It may therefore cause structural modifications of extracellular proteins. Inside the cell, it acts to form, rearrange disulfide bonds of nascent proteins. At high concentrations, it functions as a chaperone that inhibits aggregation of misfolded proteins. At low concentrations, it facilitates aggregation (anti-chaperone activity). It may be involved with other chaperones in the structural modification of the TG precursor in hormone biogenesis. It also acts as a structural subunit of various enzymes such as prolyl 4-hydroxylase and microsomal triacylglycerol transfer protein MTP.

## References

Molecular cloning of the beta-subunit of human prolyl 4-hydroxylase. This subunit and protein disulphide isomerase are products of the same gene. Pihlajaniemi T., Helaakoski T., Tasanen K., Myllyläe R., Huhtala M.-L., Koivu J., Kivirikko K.I. EMBO J. 6:643-649(1987) Research Topic: Cancer

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Note: This product is for in vitro research use only