Recombinant human Protein disulfide-isomerase

Catalog No: #AP71656

Package Size: #AP71656-1 20ug #AP71656-2 100ug #AP71656-3 1mg

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Description

Product Name	Recombinant human Protein disulfide-isomerase
Brief Description	Recombinant Protein
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:29-313aaSequence Info:Partial
Other Names	Cellular thyroid hormone-binding protein;Prolyl 4-hydroxylase subunit betap55
Accession No.	P07237
Uniprot	P07237
GeneID	5034;
Calculated MW	58.7 kDa
Tag Info	N-terminal GST-tagged
Target Sequence	LRKSNFAEALAAHKYLLVEFYAPWCGHCKALAPEYAKAAGKLKAEGSEIRLAKVDATEESDLAQQYGVRGYPT IKFFRNGDTASPKEYTAGREADDIVNWLKKRTGPAATTLPDGAAAESLVESSEVAVIGFFKDVESDSAKQFLQA AEAIDDIPFGITSNSDVFSKYQLDKDGVVLFKKFDEGRNNFEGEVTKENLLDFIKHNQLPLVIEFTEQTAPKIFGG EIKTHILLFLPKSVSDYDGKLSNFKTAAESFKGKILFIFIDSDHTDNQRILEFFGLKKEECP
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 rearrangent of disulfide bonds. At the cell surface, ses to act as a reductase that cleaves disulfide bonds of proteins attached to the cell. May therefore cause structural modifications of exofacial proteins. Inside the cell, ses to form,rearrange disulfide bonds of nascent proteins. At high concentrations, functions as a chaperone that inhibits aggregation of misfolded proteins. At low concentrations, facilitates aggregation (anti-chaperone activity). May be involved with other chaperones in the structural modification of the TG precursor in hormone biogenesis. Also acts a structural subunit of various enzymes such as prolyl 4-hydroxylase and microsomal triacylglycerol transfer protein MTTP.

References

Characterization of the human gene for a polypeptide that acts both as the beta subunit of prolyl 4-hydroxylase and as protein disulfide isomerase.Tasanen K., Parkkonen T., Chow L.T., Kivirikko K.I., Pihlajaniemi T.J. Biol. Chem. 263:16218-16224(1988)Research Topic:Metabolism

Note: This product is for in vitro research use only