



Recombinant Human Protein disulfide-isomerase (P4HB)

Product Code	CSB-YP017342HU
Relevance	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 exofacial 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.
Abbreviation	Recombinant Human P4HB protein
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.
Uniprot No.	P07237
Product Type	Recombinant Proteins
Immunogen Species	Homo sapiens (Human)
Purity	≥ 90% as determined by SDS-PAGE.
Sequence	DAPEEEDHVLVLRKSNFAEALAAHKYLLVEFYAPWCGHCKALAPEYAKAAGKL KAEGSEIRLAKVDATEESDLAQQYGVRYPTIKFFRNGDTASPKEYTAGREAD DIVNWLKKRTGPAATTLPDGAAAESLVESSEVAVIGFFKDVESDSAKQFLQAA EAIDDIPFGITSNSDVFSKYQLDKDGVVLFKKFDEGRNNEFEVTKENLLDFIKH NQLPLVIEFTEQTAPKIFGGEIKTHILLFLPKSVSDYDGKLSNFKTAAESFKGKIL FIFIDSDHTDNQRILEFFGLKKEECPAVRLITLLEEEMTKYKPESEELTAERITEFC HRFLEGKIKPHLMSQELPEDWDKQPVKVLVGKNFEDVAFDEKKNVFEFYAP WCGHCKQLAPIWDKLGETYKDHENIVIAKMDSTANEVEAVKVHSFPTLKFFPA SADRTVIDYNGERTLDGFKKFLESGGQDGAGDDDDLEDLEEAEPDMEEDDD QKAVKDEL
Research Area	Cancer
Source	Yeast
Target Names	P4HB
Protein Names	Recommended name: Protein disulfide-isomerase Short name= PDI EC= 5.3.4.1 Alternative name(s): Cellular thyroid hormone-binding protein Prolyl 4-hydroxylase subunit beta p55
Expression Region	18-508aa



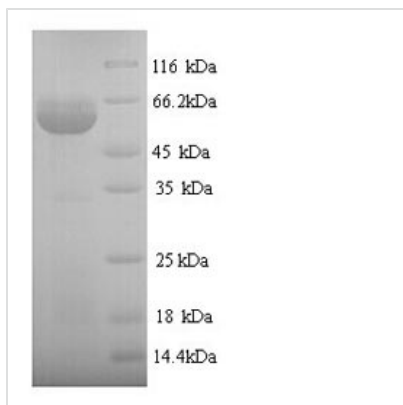
Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Tag Info N-terminal 6xHis-tagged

Mol. Weight 57.3kDa

Protein Length Full Length of Mature Protein

Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Shelf Life 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.