

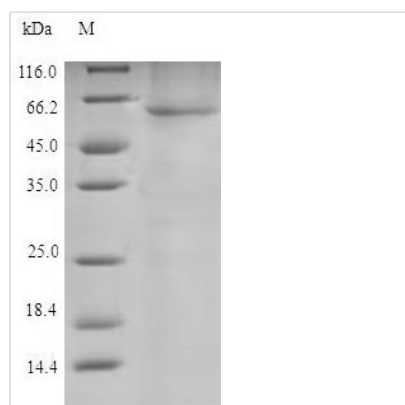


# Recombinant *Cricetulus griseus* Protein disulfide-isomerase (P4HB)

<b>Product Code</b>	CSB-EP823188DXU
<b>Relevance</b>	This multifunctional protein catalyzes the formation, breakage and rearrangement of disulfide bonds. At the cell surface, seems 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, seems 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. Receptor for LGALS9; the interaction retains P4HB at the cell surface of Th2 T helper cells, increasing disulfide reductase activity at the plasma membrane, altering the plasma membrane redox state and enhancing cell migration.
<b>Abbreviation</b>	Recombinant <i>Cricetulus griseus</i> ACTB protein
<b>Storage</b>	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.
<b>Uniprot No.</b>	Q8R4U2
<b>Alias</b>	Short name: PDI Alternative name(s): Prolyl 4-hydroxylase subunit beta p58
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	<i>Cricetulus griseus</i> (Chinese hamster) ( <i>Cricetulus barabensis griseus</i> )
<b>Purity</b>	≥ 90% as determined by SDS-PAGE.
<b>Sequence</b>	DAPEEEDNVLVLKKS NFAEALAAHNYLLVEFYAPWCGHCKALAPEYAKAAAKL KAEGSEIRLAKVDATEESDLAQQYGV RGYPTIKFFKNGDTASPKEYTAGREAD DIVNWLKKRTGPAATTLSDTAA AETLIDSSEVAVIGFFKDVESDSAQQLLAAEA VDDIPFGITSNSGVFSKYQLDKDGVVLFK KFDEGRN NFEGEVTKELLDFIKHN QLPLVIEFTEQTAPKIFGGEIKTHILLFLPKSVSDYD GKLGNFKKAAEGFKGKILFI FIDSDHTDNQRILEFFGLKKEECPAVRLIT LEEEMTKYKPESDELTAEKITEFCH RFLEGKIKPHLMSQELPEDWDKQPVKVLVGKNFEEVAFDEKKNVFVEFYAPW CGHCKQLAPIWDKLGETYKDHENIIIAKMDSTANEVEAVKVHSFPTLKFFPATA DRTVIDYNGERTLDGFKKFLESGGQDGAGDDDDVDLEEALEPDM EEDDDQKA VKDEL
<b>Research Area</b>	Signal Transduction
<b>Source</b>	E.coli
<b>Target Names</b>	P4HB



<b>Protein Names</b>	Recommended name: Protein disulfide-isomerase Short name= PDI EC= 5.3.4.1 Alternative name(s): Prolyl 4-hydroxylase subunit beta p58
<b>Expression Region</b>	20-509aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	N-terminal 6xHis-tagged
<b>Mol. Weight</b>	59.0kDa
<b>Protein Length</b>	Full Length of Mature Protein

**Image**


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

<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
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