Recombinant Cricetulus Griseus P4HB Protein (20-509 aa), His-tagged

Cat. No. P4HB-2042C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Cricetulus Griseus (Chinese hamster) (Cricetulus barabensis griseus) P4HB Protein (20-509 aa) is produced by E. coli expression system. This protein is fused with a 6xHis tag at the N-terminal. Research Area: Signal Transduction. Protein Description: Full Length of Mature Protein.
Species	Cricetulus Griseus
Source	E.coli
ProteinLength	20-509 aa
Description	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.

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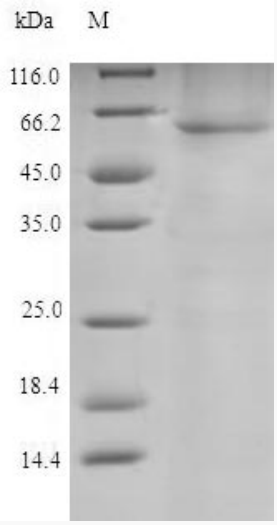
Form	Tris-based buffer,50% glycerol
Molecular Mass	59.0 kDa
AA Sequence	DAPEEEDNVLVLKKSNFAEALAAHNYLLVEFYAPWCGHCKALAPEYAKAAAKLKAE GSEIRLAKVDATEESDLAQQYGVRGYPTIKFFKNGDTASPKEYTAGREADDIVNWLK KRTGPAATTLSDTAAAETLIDSSEVAVIGFFKDVESDSAKQFLLAAEAVDDIPFGITSN SGVFSKYQLDKDGVVLFKKFDEGRNNFEGEVTKEKLLDFIKHNQLPLVIEFTEQTAPK IFGGEIKTHILLFLPKSVSDYDGKLGNFKKAAEGFKGKILFIFIDSDHTDNQRILEFFGL KKEECPAVRLITLEEEMTKYKPESDELTAEKITEFCHRFLEGKIKPHLMSQELPEDWD KQPVKVLVGKNFEEVAFDEKKNVFVEFYAPWCGHCKQLAPIWDKLGETYKDHENIII AKMDSTANEVEAVKVHSFPTLKFFPATADRTVIDYNGERTLDGFKKFLESGGQDGA GDDDDVDLEEALEPDMEEDDDQKAVKDEL
Purity	> 90% as determined by SDS-PAGE.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
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 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.
Concentration	A hardcopy of COA with reconstitution instruction is sent along with the products.

GENE INFORMATION

Gene Name	P4hb prolyl 4-hydroxylase subunit beta [Cricetulus griseus (Chinese hamster)]
Official Symbol	P4HB

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Synonyms	PDI; p58; PDIA1;
Gene ID	100689433
UniProt ID	Q8R4U2



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

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