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Datasheet for ABIN1692113
P4HB Protein (AA 18-505) (His tag)

Overview

Quantity:	50 µg
Target:	P4HB
Protein Characteristics:	AA 18-505
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This P4HB protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Prolyl 4-Hydroxylase Subunit β/P4HB/PDIA1 (C-6His)
Sequence:	DAPEEEDHVL VLRKSNFAEA LAAHKYLLVE FYAPWCGHCK ALAPEYAKAA GKLKAEGSEI RLAKVDATEE SDLAQQYGVR GYPTIKFFRN GDTASPKEYT AGREADDIVN WLKKRTGPAA TTLPDGAAAE SLVESSEVAV IGFFKDVESD SAKQFLQAAE AIDDIPFGIT SNSDVFSKYQ LDKDGVVLFK KFDEGRNFE GEVTKENLLD FIKHNQLPLV IEFTEQTAPK IFGGEIKTHI LLFLPKSVSD YDGKLSNFKT AAESFKGKIL FIFIDSDHTD NQRILEFFGL KKEECPAVRL ITLEEEMTKY KPESEELTAE RITEFCHRFL EGKIKPHLMS QELPEDWDKQ PVKVLVGKNF EDVAFDEKKN VFVEFYAPWC GHCKQLAPIW DKLGETYKDH ENIVIAKMDS TANEVEAVKV HSFPTLKFFP ASADRTVIDY NGERTLDGFK KFLESGGQDG AGDDDDLEDL EEAEPPDMEE DDDQKAVKVD HHHHHH
Characteristics:	Recombinant Human Prolyl 4-Hydroxylase Subunit β/P4HB/PDIA1 (C-6His)
Purity:	> 95 % as determined by reducing SDS-PAGE.

Product Details

Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	P4HB
Alternative Name:	Prolyl 4-Hydroxylase Subunit beta/p4hb (P4HB Products)
Background:	<p>Recombinant Human Prolyl 4-Hydroxylase Subunit β/P4HB is produced with our E. coli expression system. The target protein is expressed with sequence (Asp18-Lys505) of Human P4HB fused with a 6His tag at the C-terminus.</p> <p>Protein Disulfide-Isomerase (P4HB) is an endoplasmic reticulum lumen protein that belongs to the protein disulfide isomerase family. P4HB contains two thioredoxin domains and catalyzes the formation, breakage, and rearrangement of -S-S- bonds in proteins. P4HB is involved in hydroxylation of prolyl residues in procollagen. P4HB has the ability to act as a chaperone that inhibits aggregation of misfolded proteins in a concentration-dependent manner. P4HB plays a role in both the influx and efflux of S-nitrosothiol-bound nitric oxide.</p>
Molecular Weight:	55.9 kDa
UniProt:	P07237
Pathways:	Maintenance of Protein Location , Cell RedoxHomeostasis , Lipid Metabolism

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Liquid
Reconstitution:	<p>It is not recommended to reconstitute to a concentration less than 100 µg/mL.</p> <p>Dissolve the lyophilized protein in ddH₂O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
Buffer:	Supplied as a 0.2 µm filtered solution of PBS, pH 7.4.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	-80 °C
Storage Comment:	Store at < -20°C, stable for 6 months after receipt.

Handling

Please minimize freeze-thaw cycles.

Expiry Date: 6 months