

Recombinant human P4HB protein

Catalog Number: ATGP3136

PRODUCT INFORMATION

Expression system

E.coli

Domain

18-508aa

UniProt No.

P07237

NCBI Accession No.

NP_000909

Alternative Names

Prolyl 4-hydroxylase subunit beta, P4Hbeta, PDI, PDIA1, PHD, PO4DB, PO4HB; ERBA2L, Protein disulfide-isomerase, Cellular thyroid hormone-binding protein, p55

PRODUCT SPECIFICATION

Molecular Weight

57.5 kDa (521aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

Purity

> 90% by SDS-PAGE

Biological Activity

Specific activity > 100 A650/cm/min/mg. Enzymatic activity was confirmed by measuring the aggregation of insulin in the presence of DTT.

Tag

His-Tag

Application

SDS-PAGE, Enzyme Activity

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

P4HB, prolyl 4 hydroxylase subunit beta, is a multifunctional and highly abundant enzyme that belongs to the protein disulfide isomerase family. When present as a tetramer consisting of two alpha and two beta subunits,

Recombinant human P4HB protein

Catalog Number: ATGP3136

this enzyme is involved in hydroxylation of prolyl residues in procollagen. This protein is also a disulfide isomerase containing two thioredoxin domains that catalyze the formation, breakage and rearrangement of disulfide bonds. Recombinant human P4HB protein, fused to His-tag at N-terminus, was expressed in *E. coli* and purified by using conventional chromatography.

Amino acid Sequence

MGSSHHHHHH SGLVPRGSH MDAPEEEDHV LVLRSNFAE ALAAHKYLLV EFYAPWCGHC KALAPEYAKA AGKLKAEGSE IRLAKVDATE ESDLAQYGV RGYPTIKFFR NGDTASPKEY TAGREADDIV NWLKKRTGPA ATTLPDGAAA ESLVESSEVA VIGFFKDVES DSAKQLQAA EAIDDIPFGI TSNSDVFSKY QLDKDGVLVLF KKFDEGRNNF EGEVTKENLL DFIKHNQLPL VIEFTEQTAP KIFGGEIKTH ILLFLPKSVS DYDGKLSNFK TAAESFKGKI LFIFIDSDHT DNQRILEFFG LKKEECPAVR LITLEEEMTK YKPESEELTA ERITEFCHRF LEGKIKPHLM SQELPEDWDK QPVKVLVGKN FEDVAFDEKK NVFVEFYAPW CGHCKQLAPI WDKLGETYKD HENIVIAKMD STANEVEAVK VHSFPTLKFF PASADRTVID YNGERTLDGF KKFLES GGQD GAGDDDDLED LEEAEPPDME EDDQKAVKD EL

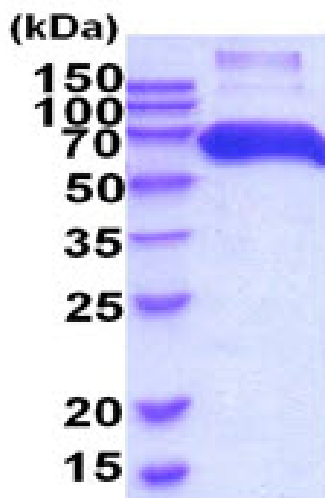
General References

Pfander D., et al. (2006) *Am J Pathol.* 169(2):491-502.

Kivirikko KI., et al. (1991) *J Hepatol.* 13 Suppl 3:S2-7.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)