

Recombinant human P4HB protein

Catalog Number: ATGP0670

PRODUCT INFORMATION

Expression system

E.coli

Domain

18-508aa

UniProt No.

P07237

NCBI Accession No.

NP_000909

Alternative Names

Proly 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 (512aa) 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

Tag

His-Tag

Application

SDS-PAGE

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, 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

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purified by using conventional chromatography.

Amino acid Sequence

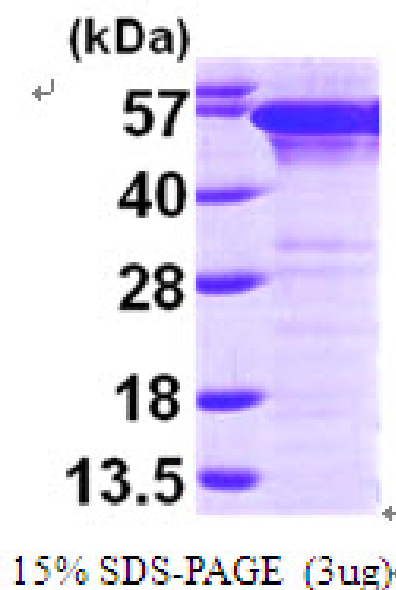
MGSSHHHHHH SSGLVPRGSH MDAPEEEDHV LVLKRSNFAE ALAAHKYLLV EFYAPWCGHC KALAPEYAKA AGKLKAEGSE
IRLAKVDATE ESDLAQQYGV RGYPTIKFFR NGDTASPKEY TAGREADDIV NWLKKRTGPA ATTLPDGAAA ESLVESSEVA
VIGFFKDVES DSAKQFLQAA EAIDDIPFGI TSNSDVFSKY QLDKDGVLVLF KKFDEGRNNF EGEVTKENLL DFIKHNQLPL
VIEFTEQTAP KIFGGEIKTH ILLFLPKSVS DYDGKLSNFK 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., (1991) J Hepatol. 13 Suppl 3:S2-7.

DATA

SDS-PAGE



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