

Recombinant mouse P4HB protein

Catalog Number: ATGP3297

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

20-509aa

UniProt No.

P09103

NCBI Accession No.

NP_035162

Alternative Names

P4HB, ERp59, PDI, Pdia1, Thbp, Protein disulfide-isomerase, Cellular thyroid hormone-binding protein, p55

PRODUCT SPECIFICATION

Molecular Weight

56.1 kDa (498aa)

Concentration

0.5mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 95% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Biological Activity

Specific activity is >120 A650/cm/min/mg, obtained by measuring the increase of insulin precipitation in absorbance at 650nm resulting from the reduction of insulin.

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

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Description

P4HB, also known as protein disulfide-isomerase, prolyl 4-hydroxylase subunit beta, procollagen hydroxylase, cellular thyroid hormone binding protein p55 and glutathione-insulin transhydrogenase, is an abundant multifunctional enzyme that belongs to the protein disulfide isomerase family. At the cell surface, it seems to act as a reductase that cleaves disulfide bonds of proteins attached to the cell. Recombinant mouse P4HB, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

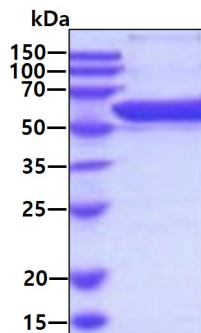
DALEEEDNVL VLKKSNFEEA LAAHKYLLVE FYAPWCGHCK ALAPEYAKAA AKLKAEGSEI RLAKVDATEE SDLAQQYGVR
 GYPTIKFFKN GDTASPKEYT AGREADDIVN WLKKRTGPAA TSLSDTAAAE SLVDSSEVTV IGFFKDVESD SAKQFLLAAE
 AIDDIPFGIT SNSGVFSKYQ LDKDGVVLFK KFDEGRNFE GEITKEKLLD FIKHNQLPLV IEFTEQTAPK IFGGEIKTHI
 LLFLPKSVSD YDGKLSFKR AEGFKGKIL FIFIDSDHTD NQRILEFFGL KKEECPAVRL ITLEEEMTKY KPESDELTAE
 KITEFCHRFL EGKIKPHLMS QEVPEDWDKQ PVKVLVGANF EEVAFDEKKN VFVEFYAPWC GHCKQLAPIW DKLGETYKDH
 ENIIIAKMDS TANEVEAVKV HSFPTLKFFP ASADRTVIDY NGERTLDGFK KFLESGGQDG AGDDEDLDLE EALEPDM EED
 DDQKAVKDEL <LEHHHHHH>

General References

Wetterau J., et al. (1990) J. Biol. Chem. 265:9800-9807.
 Sliskovic I., et al. (2005) J. Biol. Chem. 280:8733-8741.

DATA

SDS-PAGE



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