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# **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, protocollagen 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**

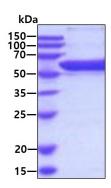
DALEEDNVL VLKKSNFEEA LAAHKYLLVE FYAPWCGHCK ALAPEYAKAA AKLKAEGSEI RLAKVDATEE SDLAQQYGVR GYPTIKFFKN GDTASPKEYT AGREADDIVN WLKKRTGPAA TTLSDTAAAE SLVDSSEVTV IGFFKDVESD SAKQFLLAAE AIDDIPFGIT SNSGVFSKYQ LDKDGVVLFK KFDEGRNNFE GEITKEKLLD FIKHNQLPLV IEFTEQTAPK IFGGEIKTHI LLFLPKSVSD YDGKLSSFKR AAEGFKGKIL FIFIDSDHTD NQRILEFFGL KKEECPAVRL ITLEEEMTKY KPESDELTAE KITEFCHRFL EGKIKPHLMS QEVPEDWDKQ PVKVLVGANF EEVAFDEKKN VFVEFYAPWC GHCKQLAPIW DKLGETYKDH ENIIIAKMDS TANEVEAVKV HSFPTLKFFP ASADRTVIDY NGERTLDGFK KFLESGGQDG AGDDEDLDLE EALEPDMEED DDOKAVKDEL <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.

