

Product information

P4HB, 20-509aa

Mouse, His-tagged, Recombinant, Insect cell

Cat. No. IBATGP3297

Full name: Prolyl 4-hydroxylase subunit beta

NCBI Accession No.: NP_035162

Synonyms: P4HB, ERp59, PDI, Pdia1, Thbp

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.

Form: Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.

Molecular Weight: 56.1kDa (498aa)

50-70KDa (SDS-PAGE under reducing conditions.)

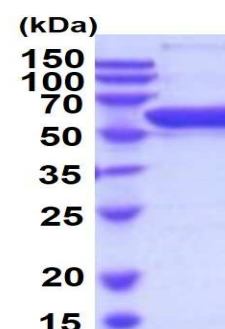
Predicted N terminal: Asp20

Purity: > 95% by SDS – PAGE.

Concentration: 0.5mg/ml (determined by Absorbance at 280nm)

Endotoxin Level: < 1.0 EU per 1µg 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.



15% SDS-PAGE (3µg)

Sequences of amino acids:

DALEEEEDNVL VLKKSNFEEA LAAHKYLLVE FYAPWCGHCK ALAPEYAKAA AKLKAEGSEI RLAKVDATEE SDLAQQYGVR GYPTIKFFKN
 GDTASPKEYT AGREADDIVN WLKVRTGPAA TTLSDTAAAE SLVDSSEVTV IGFFKDVESD SAKQFLAAE AIDDIPFGIT SNSGVFSKYQ
 LDKDGVVLFK KFDEGRNFE GEITKEKLLD FIKHNQLPLV IEFTEQTAPK IFGGEIKTHI LLFLPKSVSD YDGLSSFKR AAEGFGKGI L
 FIFIDSDHTD NQRILEFFGL KKEECPAVRL ITLEEEMTKY KPESDELTAE KITEFCHRFL EGKIKPHLMS QEVPEDWDKQ PVKVLVGANF
 EEVAFDEKKN VFVEFYAPWC GHCKQLAPIW DKLGETYKDH ENIIAKMDS TANEVEAVKV HSFPTLKFFP ASADRTVIDY NGERTLDGFK
 KFLESGGQDG AGDDEDLLE EALEPDMEED DDQKAVKDEL LEHHHHHH

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.

Product information

General references:

Wetterau J., *et al.* (1990) *J. Biol. Chem.* 265:9800-9807.

Sliskovic I., *et al.* (2005) *J. Biol. Chem.* 280:8733-8741.

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.

Avoid repeated freezing and thawing cycles.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



Manufactured for:

Immuno-Biological Laboratories, Inc. (IBL-America)

8201 Central Ave. NE, Suite P, Minneapolis, Minnesota 55432, USA

Phone: (888) 523-1246

Fax.: (763) 780-2988

Email: info@ibl-america.com

Web: www.ibl-america.com