

## 32-6868: P4HB Mouse

**Alternative Name :** Protein disulfide-isomerase, PDI, Cellular thyroid hormone-binding protein, Endoplasmic reticulum resident protein 59, ER protein 59, ERp59, Prolyl 4-hydroxylase subunit beta, p55.

### Description

Source: Sf9, Baculovirus cells.

Sterile Filtered colorless solution.

P4HB is a multifunctional and highly abundant enzyme that is part of the protein disulfide isomerase family. When present as a tetramer consisting of two alpha and two beta subunits, P4HB has a role in hydroxylation of prolyl residues in procollagen. P4HB is a disulfide isomerase containing two thioredoxin domains that catalyze the formation, breakage and rearrangement of disulfide bonds.

P4HB produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 498 amino acids (20-509a.a.) and having a molecular mass of 56.1kDa.Å (Molecular size on SDS-PAGE will appear at approximately 40-57kDa). P4HB is expressed with an 8 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

### Product Info

|                            |  |
|----------------------------|--|
| <b>Amount :</b>            | 2 µg / 10 µg   |
| <b>Purification :</b>      | Greater than 95.0% as determined by SDS-PAGE.  |
| <b>Content :</b>           | P4HB protein solution (0.5mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.   |
| <b>Storage condition :</b> | Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.   |
| <b>Amino Acid :</b>        | DALEEDNVL VLKKSNFEEA LAAHKYLLVE FYAPWCGHCK ALAPEYAKAA AKLKAEGSEI RLAQVDATEE<br>SDLAQQYGVR GYPTIKFFKN GDTASPKEYT AGREADDIVN WLKRTGPAA TTLSDTAAAE SLVDSSEVTV<br>IGFFKDVESD SAKQFLAAE AIDDIPFGIT SNSGVFSKYQ LDKDGVVLFK KFDEGRNNFE GEITKEKLLD<br>FIKHNQLPLV IEFTEQTAPK IFGGEIKTHI LLFLPKSVSD YDGLSSFKR AAEFGKGL FIFIDSDHTD<br>NQRILEFFGL KKEECPAVRL ITLEEEMTKY KPESDELTAE KITEFCHRFL EGKIKPHLMS QEVPEDWDKQ<br>PVKVLVGANF EEVAFDEKKN VFVEFYAPWC GHCKQLAPIW DKLGETYKDH ENIIIAKMDS TANEVEAVKV<br>HSFPTLKFFP ASADRTVIDY NGERTLDGFK KFLESQQDG AGDDEDLDLE EALEPDMEED DDQKAVKDEL<br>LEHHHHHH. |