

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

Amount : 2 µg / 10 µg

Purification : Greater than 95.0% as determined by SDS-PAGE.

Content : P4HB protein solution (0.5mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.

Storage condition : 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.

Amino Acid : DALEEDNVL VLKKSNEEA LAAHKYLLVE FYAPWCGHCK ALAPEYAKAA AKLKAEGSEI RLAKVDATEE
SDLAQQYGVR GYPTIKFFKN GDTASPKEYT AGREADDIVN WLKKRTGPAA TTLSDTAAAE SLVDSSEVT
IGFFKDVEDS SAKQFLAAE AIDIPFGIT SNSGVFSKYQ LDKDGVVLFK KFDEGRNNFE GEITKEKLLD
FIKHNQLPLV IEFTEQTAPK IFGGEIKTHI LLFLPKSVSD YDGLSSFKR AAEFGKGKIL FIFIDSDHTD
NQRILEFFGL KKEECPAVRL ITLEEEMTKY KPESDELTAE KITEFCHRFL EGKIKPHLMS QEVPEDWDKQ
PVKVLVGANF EEVAFDEKKN VFVEFYAPWC GHCKQLAPIW DKLGETYKDH ENIIIAKMDS TANEVEAVKV
HSFPTLKFFP ASADRTVIDY NGERTLDGFK KFLES GGQDG AGDDEDLDLE EALEPDMEED DDQKAVKDEL
LEHHHHHH.