

**P4HB, 20-509aa, Mouse, His tag, Insect cell**

**Cat.NO.: TP03278**

3th Edition

**Synonyms:**P4HB, ERp59, PDI, Pdia1, Thbp

**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.

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

**Molecular Weight:**56.1kDa (498aa), 50-70kDa (SDS-PAGE under reducing conditions)

**Sequences:**

DALEEEDNVLVLKKSNFEEALAAHKYLLVEFYAPWCGHCKALAPEYAKAAAKLKAEGSEIRLAKVDATEESDLAQQY  
GVRGYPTIKFFKNGDTASPKEYTAGREADDIVNWLKKRTGPAATTLSDTAAAESLVDSSSEVTVIGFFKDVESDSAQK  
FLLAAEAIDDIPFGITSNSGVFSKYQLDKDGVVLFKKFDEGRNNFEGEITKEKLLDFIKHNQLPLVIEFTEQTAPKIFGG  
EIKTHILLFLPKSVSDYDGLSSFKRAAEGFKGKILFIFIDSDHTDNQRILEFFGLKKEECPAVRLITLLEEEMTKYKPES  
DELTAEKITEFCHRFLGKIKPHLMSQEVPEWDKQPVKVLVGANFEEVAFDEKKNVFVEFYAPWCGHCKQLAPIW  
DKLGETYKDHENIIIAKMDSTANEVEAVKVHSFPTLKFFPASADRTVIDYNGERTLDGFKKFLESGGQDGAGDDEDL  
DLEEALPDMEEEDDDQKAVKDELLEHHHHHH

**Purity:**> 95% by HPLC

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

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**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.