

## 32-8172: Recombinant Human Prolyl 4-Hydroxylase Subunit beta/P4HB/PDIA1 (C-6His)

**Gene :** P4HB  
**Gene ID :** 5034  
**Uniprot ID :** P07237

### Description

Source: E. coli.  
MW :55.9kD.

Recombinant Human Prolyl 4-Hydroxylase Subunit Beta is produced by our E.coli expression system and the target gene encoding Asp18-Lys505 is expressed with a 6His tag at the C-terminus. Protein Disulfide-Isomerase (P4HB) is an endoplasmic reticulum lumen protein that belongs to the protein disulfide isomerase family. P4HB contains two thioredoxin domains and catalyzes the formation, breakage, and rearrangement of -S-S- bonds in proteins. P4HB is involved in hydroxylation of prolyl residues in procollagen. P4HB has the ability to act as a chaperone that inhibits aggregation of misfolded proteins in a concentration-dependent manner. P4HB plays a role in both the influx and efflux of S-nitrosothiol-bound nitric oxide.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Supplied as a 0.2 µm filtered solution of PBS, pH 7.4.  
**Storage condition :** Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.  
**Amino Acid :** DAPEEEDHVLVLRKSNFAEALAAHKYLLVEFYAPWCGHCKALAPEYAKAAGKLKAEGSEIRLAKVDATEESDLA  
QQYGVRGYPTIKFFRNGDTASPKEYTAGREADDIVNWLKKRTGPAATTLPDGAAAESLVESSEVAVIGFFKDVE  
SDSAKQFLQAAEAIDDIPFGITSNSDVFSKYQLDKDGVVLFKKFDEGRNMFEGEVTKENLLDFIKHNQLPLVIEFT  
EQTAPKIFGGEIKTHILLFLPKSVSDYDGKLSNFKTAAESFKGKILFIFIDSDHTDNQRILEFFGLKKEECPAVRLITL  
EEEMTKYKPESEELTAERITEFCHRFLEGKIKPHLMSQELPEDWDKQPVKVLVGKNFEDVAFDEKKNVFVEFYAP  
WCGHCKQLAPIWDKLGETYKDHENIVIAKMDSTANEVEAVKVHSFPTLKFFPASADRTVIDYNGERTLDGFKKF  
LESGGQDGAGDDDDLEDLEEAEEPDMEEDDDDQKAVKVDHHHHHH

### Application Note

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.