



Recombinant Chicken Protein disulfide-isomerase (P4HB)

Product Code	CSB-MP017342CH
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P09102
Product Type	Recombinant Protein
Immunogen Species	Gallus gallus (Chicken)
Purity	≥85% (SDS-PAGE)
Sequence	EPLEEEDG VLVLRANFE QALAAHRHLL VEFYAPWCGH CKALAPEYAK AAAQLKAEGS EIRLAKVDAT EEAELAQQFG VRGYPTIKFF RNGDKAAPRE YTAGREADDI VSWLKKRTGP AATTLTDAAA AETLVDSSEV VVIGFFKDVT SDAAKEFLLA AESVDDIPFG ISSSADVFSK YQLSQDGVVL FKKFDEGRNN FEGDLTKDNL LNFISNQLP LVIEFTEQTA PKIFGGEIKT HILLFLPKSV SDYEGKLDNF KTAAGNFKGK ILFIFIDSDH SDNQRILEFF GLKKEECPAV RLITLEEEMT KYKPESDDL ADKIKEFCNK FLEGKIKPHL MSQDLPEDWD KQPVKVLVGK NFEEVAFDEN KNVFVEFYAP WCGHCKQLAP IWDKLGETYR DHENIVIAKM DSTANEVEAV KIHSPFTLKF FPAGSGRNV DYNGERTLEG FKKFLESGGQ DGAAADDLE DLETDEETDL EEGDDDEQKI QKDEL
Source	Mammalian cell
Target Names	P4HB
Protein Names	Recommended name: Protein disulfide-isomerase Short name= PDI EC= 5.3.4.1 Alternative name(s): Cellular thyroid hormone-binding protein Prolyl 4-hydroxylase subunit beta Retina cognin Short name= R-cognin
Expression Region	23-515
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full Length of Mature Protein
Target Details	This gene encodes the beta subunit of prolyl 4-hydroxylase, a highly abundant multifunctional enzyme that belongs to the protein disulfide isomerase family. When present as a tetramer consisting of two alpha and two beta subunits, this enzyme is involved in hydroxylation of prolyl residues in procollagen. This enzyme is also a disulfide isomerase containing two thioredoxin domains that catalyze the formation, breakage and rearrangement of disulfide bonds. Other known functions include its ability to act as a chaperone that inhibits aggregation of misfolded proteins in a concentration-dependent manner, its ability to bind thyroid hormone, its role in both the influx and efflux of S-nitrosothiol-bound nitric oxide, and its function as a subunit of the microsomal triglyceride transfer protein complex.



Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.