



Recombinant Human Procollagen-lysine,2-oxoglutarate 5-dioxygenase 2 (PLOD2)

Product Code	CSB-BP018200HU
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	O00469
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	>85% (SDS-PAGE)
Sequence	<p>ADSEK PSSIPTDKLL VITVATKESD GFHRFMQSAK YFNYTVKVLG QGEEWRGGDG INSIGGGQKV RLMKEVMEHY ADQDDLVMF TECFDVIFAG GPEEVLKKFQ KANHKVFAA DGILWPKRL ADKYPVVHIG KRYLNSGGFI GYAPYVNRIV QQWNLQDNDD DQLFYTKVYI DPLKREAINI TLDHKCKIFQ TLNGAVDEVV LKFENGKARA KNTFYETLPV AINGNGPTKI LLNYFGNYVP NSWTQDNGCT LCEFDTV DLS AVDVHPN VSI GVFIEQPTPF LPRFLDILLT LDYPKEALKL FIHNKEVYHE KDIKVFFDKA KHEIKTIKIV GPEENLSQAE ARNMGMDFCR QDEKCDYYFS VDADVLTNP RTLKILIEQN RKIAPLVTR HGKLWSNFWG ALSPDGYAR SEDYVDIVQG NRVGVWNVPI MANVYLIK GK TLRSEMNER N YFVRDKLDPD MALCRNAREM GVFMYISNRH EFGRLSTAN YNTSHYNN DL WQIFENPVDW KEKYINRDYS KIFTENIVEQ PCPDVFWFPI FSEKACDELV EEMEHY GKWS GGKHHDSRIS GGYENVPTDD IHMKQVDLEN VWLHFIREFI APVTLKVFAG YYTKGFALLN FVVKYSPERQ RSLRPHHDAS TFTINIALNN VGEDFQGGGC KFLRYNCSIE SPRKGWSFMH PGRLTHLHEG LPVKNTRYI AVSFIDP</p>
Source	Baculovirus
Target Names	PLOD2
Protein Names	Recommended name: Procollagen-lysine,2-oxoglutarate 5-dioxygenase 2 EC=1.14.11.4 Alternative name(s): Lysyl hydroxylase 2 Short name= LH2
Expression Region	26-737
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 protein is a membrane-bound homodimeric enzyme that is localized to the cisternae of the rough endoplasmic reticulum. The enzyme (cofactors iron and ascorbate) catalyzes the hydroxylation of lysyl residues in collagen-like peptides. The resultant hydroxylysyl groups are attachment sites for carbohydrates in collagen and thus are critical for the stability of intermolecular crosslinks. Some patients with Ehlers-Danlos syndrome type VIB have deficiencies in lysyl hydroxylase activity. Mutations in the coding region of this gene are associated with Bruck syndrome. Alternative splicing results in multiple



transcript variants encoding different isoforms.

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.