



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

<b>Product Code</b>	CSB-EP018200HU
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	O00469
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	≥85% (SDS-PAGE)
<b>Sequence</b>	<p>ADSEK PSSIPTDKLL VITVATKESD GFHRFMQSAK YFNyTVKVLG            QGEEWRGGDG INSIGGGQKV RLMKEVMEHY ADQDDLVMF TECFDVIFAG            GPeeVLKKFQ KANHkVVFAA DGILWPKRl ADKYPVVHIG KRYLNSGGFI            GYAPyVNRIV QQWNLQDNDD DQLFYTKVYI DPLKREAINI TLDHKCKIFQ            TLNGAVDEVV LKFENGKARA KNTFYETLPV AINGNGPTKI LLNYFGNYVP            NSWTQDNGCT LCEFDTVdLS AVdVHPNvSI GVFIEQPTPF LPRFLDILLT            LDYPKEALKL FIHNKEVYHE KDIKvFFDKA KHEIKTIKIV GPEENLSQAE            ARNMGMDFCR QDEKCDYYFS VDADvVLTNP RTLKILIEQN RKIIAPLVTR            HGKLWSNFWG ALSPDGYyAR SEDYVDIVQG NRVGVWNVpY            MANVYLIKgK TLRSEMNERN YFVRDKLDPD MALCRNAREM GVFMYISNRH            EFGRLlSTAN YNTSHYNNDL WQIFENPVDW KEKYINRDYS KIFTENIVEQ            PCPDVFWFPI FSEKACDELV EEMEHYgKWS GGKHHDSRIS GGYENVPTDD            IHMKQVDLEN VWLHFIREFI APVTLKVFAG YYTKGFALLN FVVKYSPERQ            RSLRPHHDAS TFTINIALNN VGEDFQGGGC KFLRYNCSIE SPRKGWSFMH            PGRLTHLHEG LPVKNgTRYI AVSFIDP</p>
<b>Source</b>	E.coli
<b>Target Names</b>	PLOD2
<b>Protein Names</b>	Recommended name: Procollagen-lysine,2-oxoglutarate 5-dioxygenase 2 EC= 1.14.11.4 Alternative name(s): Lysyl hydroxylase 2 Short name= LH2
<b>Expression Region</b>	26-737
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	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.

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**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.

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**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.