



# Recombinant Rat Procollagen-lysine,2-oxoglutarate 5-dioxygenase 2 (Plod2)

<b>Product Code</b>	CSB-EP770518RA-B
<b>Abbreviation</b>	Plod2
<b>Storage</b>	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.
<b>Uniprot No.</b>	Q811A3
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Rattus norvegicus (Rat)
<b>Purity</b>	≥85% (SDS-PAGE)
<b>Sequence</b>	<p>VAEET PSRIPADKLL VITVATKEND GFHRFMNSAK YFNYYTVKVLG            QGQEWRRGGDG MNSIGGGQKV RLMKEAMEHY AGQDDLVLIF TECFDVIFAG            GPEELLKKFQ KTNHKIVFAA DALLWPKRL ADKYPGVHIG KRYLNSGGFI            GYAPYISRLV QQWNLQDNDD DQLFYTKVYI DPLKREALNI TLDHRCKIFQ            ALNGATDEVV LKFENGKSRV KNTFYETLPV AINGNGPSKI LLNYFGNYVP            NSWTQENGCA LCDFDASDLS TVDVYPKVTL GVFIQPTPF QPRFLDLLLT            LDYPKEALRL FVHNKEVYHE KDIKAFVDKA KHDISSIKIV GPEENLSQAE            ARNMGMDFCR QDEKCDYYFS VDADVLTNP RTLKILIEQN RKIAPLVTR            HGKLWSNFWG ALSPDGYAR SEDYVDIVQG NRVGWVNPY MANVYLIQGG            TLRSEMERN YFVRDKLDPD MSLCRNARDM GVFMYSNRH EFGRLISTAN            YNTSHLNDL WQIFENPVDW KEKYINRDYS KIFTENIVEQ PCPDVFWFPI            FSERACDELV EEMEHYKWS GGKHHDSRIS GGYENVPTDD IHMKQIDLEN            VWLHFIREFI APVTLKVFAG YYTKGFALLN FVVKYSPERQ RSLRPHHDAS            TFTINIALNN VGEDFQGGGC KFLRYNCSIE SPRKGWSFMH PGRLLHLHEG            LPVKNTRYI 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.

---

**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.