

Recombinant Human PLOD1 protein, His-tagged

Cat. No. PLOD1-1180H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human PLOD1 aa. (Gln636~Pro727 fused with N-terminal His tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Gln636~Pro727
Description	Lysyl hydroxylase is a membrane-bound homodimeric protein localized to the cisternae of the 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 VI have deficiencies in lysyl hydroxylase activity. Two transcript variants encoding different isoforms have been found for this gene.
Form	Freeze-dried powder
Molecular Mass	14kDa as determined by SDS-PAGE reducing conditions.
Endotoxin	<1.0EU per 1g (determined by the LAL method)
Purity	>95%

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Characteristic	The isoelectric point is 9.1.
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Concentration	200µg/mL
Storage buffer	100mM NaHCO ₃ , 500mM NaCl, pH8.3, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 100mM NaHCO ₃ , 500mM NaCl (pH8.3) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	PLOD1 procollagen-lysine,2-oxoglutarate 5-dioxygenase 1 [Homo sapiens (human)]
Official Symbol	PLOD1
Synonyms	PLOD1; procollagen-lysine,2-oxoglutarate 5-dioxygenase 1; LH; LH1; LLH; EDS6; PLOD; procollagen-lysine,2-oxoglutarate 5-dioxygenase 1; lysine hydroxylase; lysyl hydroxylase 1; procollagen-lysine 1, 2-oxoglutarate 5-dioxygenase 1
Gene ID	5351

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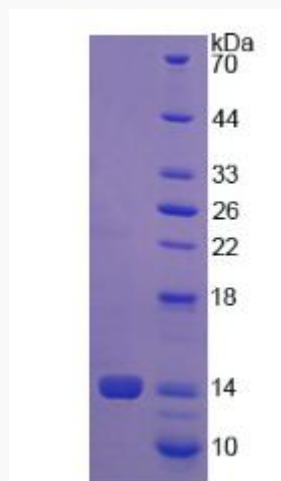
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mRNA Refseq [NM_000302.3](#)

Protein Refseq [NP_000293.2](#)

UniProt ID [Q02809](#)

SDS-PAGE



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