

Recombinant Human PLOD1 Protein, His-tagged

Cat. No. PLOD1-1189H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human PLOD1 Protein (Gln636-Pro727) with His tag was expressed in 293F.
Species	Human
Source	HEK293
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	Predicted Molecular Mass: 12.1 kDa; Accurate Molecular Mass: 15 kDa
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.

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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 centigrade 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 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) 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; EDSKCL1; procollagen-lysine,2-oxoglutarate 5-dioxygenase 1; lysine hydroxylase; lysyl hydroxylase 1; procollagen lysyl hydroxylase 1; procollagen-lysine 1, 2-oxoglutarate 5-dioxygenase 1; EC 1.14.11.4
Gene ID	5351
mRNA Refseq	NM_000302
Protein Refseq	NP_000293

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MIM	153454
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UniProt ID	Q02809
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