Recombinant Human PLOD2 protein, His & T7-tagged

Cat. No. PLOD2-1181H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PLOD2 aa. (Lys644~Pro737 (Accession # O00469) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Lys644~Pro737
Description	The protein encoded by this gene 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.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 14.3kDa.
Endotoxin	<1.0EU per 1μg (determined by the LAL method)

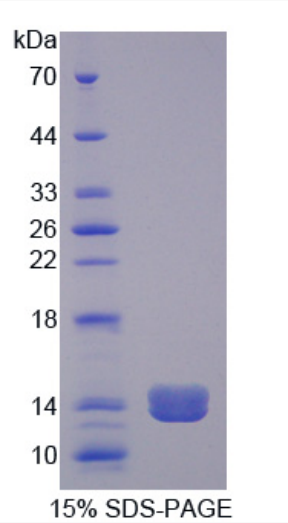
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Purity	>95%
Characteristic	The isoelectric point is 9.6.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein 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.
Storage buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	PLOD2 procollagen-lysine,2-oxoglutarate 5-dioxygenase 2 [Homo sapiens (human)]
Official Symbol	PLOD2
Synonyms	PLOD2; procollagen-lysine,2-oxoglutarate 5-dioxygenase 2; LH2; TLH; BRKS2; procollagen-lysine,2-oxoglutarate 5-dioxygenase 2; lysine hydroxylase 2; lysyl hydroxlase 2; lysyl hydroxylase 2; procollagen-lysine 5-dioxygenase; telopeptide lysyl hydroxylase

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Gene ID	5352
mRNA Refseq	NM_000935.2
Protein Refseq	NP_000926.2
UniProt ID	O00469
SDS-PAGE	

15% SDS-PAGE

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