

Recombinant Full Length Human PLOD1 Protein, C-Flag-tagged

Cat. No. PLOD1-843HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human PLOD1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	81.5 kDa
AA Sequence	MRPLLLLALLGWLLLAELAKGDAKPEDNLLVLTVA TKETEGFRRFKRSAQFFNYKIQAL GLGEDWNVEKGT SAGGGQKVRLLKKALEKHADKEDLVILFTDSYDVL FASGPRELL KKFRQRSRSQVVFSAEELIYPDRRLET KYPVVS DGKRFLGSGGFIGYAPNLSKLVAE WEGQDSDSDQLFYTKIFLDPEKREQINITLDHRCRIFQNL DGALDEVVLKFEMGHVR ARNLAYDTLPVLIHGNGPTKLQLNLYLGNYIPRFWTFETGCTVCDEGLRSLKGI GDEA

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LPTVLVGVFIEQPTPFVSLFFQRLRLHYPQKHMRLFIHNHEQHHKAQVEEFLAQHG
 SEYQSVKLV GPEVRMANADARNMGADLCRQDRSCTYYFSVDADVALTEPNSRLLI
 QQNKNVIAPLMTRHGRLWSNFWG ALSADGYYARSEDYVDIVQGRRVGVWNPYIS
 NIYLIKGSALRGELQSSDLFHHSKLDPDMAFCANIRQQ DVFMFLTNRHTLGHLLSLD
 SYRTTHLHNDLWEVFSNPEDWKEKYIHQNYTKALAGKLVETPCPDVYWFPI FTEVA
 CDELVEEMEHFGQWSLGNKDNRIQGGYENVPTIDIHMNQIGFEREWHKFLLEYIAP
 MTEKLYPG YYTRAQFDLAFVVRYPDEQPSLMPHHDASTFTINIALNRVGVDYEGG
 GCRFLRYNCSIRAPRKGWTLMH
 PGRLTHYHEGLPTTRGTRYIAVSFVDPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Lysine degradation
Full Length	Full L.

GENE INFORMATION

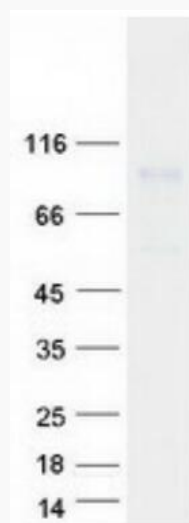
Gene Name **PLOD1 procollagen-lysine,2-oxoglutarate 5-dioxygenase 1 [Homo sapiens (human)]**

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Official Symbol	PLOD1
Synonyms	LH; LH1; LLH; EDS6; PLOD; EDSKCL1
Gene ID	5351
mRNA Refseq	NM_000302.4
Protein Refseq	NP_000293.2
MIM	153454
UniProt ID	Q02809



Coomassie blue staining of purified PLOD1 protein.