

Recombinant Human PLOD1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PLOD1-1304H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PLOD1 MS Standard C13 and N15-labeled recombinant protein (NP_000293) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	83.6 kDa
AA Sequence	MRPLLLLALLGWLLLAELAKGDAKPEDNLLVLTVA TKETEGFRRFKRSAQFFNYKIQAL GLGEDWNVEKGTSAGGGQKVRLKKALEKHADKEDLVILFTDSYDVL FASGPPELL KKFRQRSRSQVVFSAEELIYPDRRL ETKY PVVSDGKRFLGSGGFIGYAPNLSKLVAEW EGQDSDSDQLFYTKIFLDPEKREQINITLDHRCRIFQNLDGALDEVVLKFEMGHVRAR NLAYDTLPVLIHGNGPTKLQLNYLGNYIPRFWTFETGCTVCDEGLRSLKGIGDEALPT VLVGVFIEQPTPFVSLFFQRLRLHYPQKHMRLFIHNHEQHHKAQVEEFLAQHGSEY

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QSVKLVGPEVRMANADARNMGADLCRQDRSCTYYFSVDADVALTEPNSLRLLIQQN
KNVIAPLMTRHGRLWSNFWGALSADGYARSEDYVDIVQGRRVGVWNVPIYSNIYLI
KGSALRGELQSSDLFHHSKLDPDMAFCANIRQQDVFMFLTNRHTLGHLLSLDSYRT
THLHNDLWEVFSNPEDWKEKYIHQNYTKALAGKLVETPCPDVYWFPIFTEVACDELV
EEMEHFGQWSLGNKDNRIQGGYENVPTIDIHMNQIGFEREWHKFLLEYIAPMTEKL
YPGYYTRAQFDLAFVVRYPDEQPSLMPHHDASTFTINIALNRVGVVDYEGGGCRFL
RYNCSIRAPRKGWTLMHPGRLTHYHEGLPTTRGTRYIAVSFVDPTRTRPLEQKLISE
EDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

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-lysine 1, 2-oxoglutarate 5-dioxygenase 1; EC 1.14.11.4

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Gene ID	5351
mRNA Refseq	NM_000302
Protein Refseq	NP_000293
MIM	153454
UniProt ID	Q02809
SDS-PAGE	