

Recombinant Human PLOD2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PLOD2-657H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PLOD2 MS Standard C13 and N15-labeled recombinant protein (NP_891988) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	87.1 kDa
AA Sequence	MGGCTVKPQLLLLALVLHPWNPCLGADSEKPSSIPTDKLLVITVATKESDGFHRFMQ SAKYFNYTVKVLGQGEEWRGGDGINSIGGGQKVRLMKEVMEHYADQDDLVMFTE CFDVIFAGGP EEV LKKFQKANHKVVFAADGILWPDKRLADKYPVVHIGKRYLNSGGF IGYAPYVNRIVQQWNLQDNDDQLFYTKVYIDPLKREAINITLDHKCKIFQTLNGAVD

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EVVLKFENGKARAKNTFYETLPVAINGNGPTKILLNYFGNYVPNSWTQDNGCTLCEF
 DTVDLASVDVHPNVSIGVFIEQPTPFLPRFLDILLTDYPKEALKLFIHNKEVYHEKDIK
 VFFDKAKHEIKTIKIVGPEENLSQAEARNMGMDFCRQDEKCDYYFSVDADVLTNPR
 TLKILIEQNRKIIAPLVTRHGKLWSNFWGALSPDGYARSEDYVDIVQGNRVGVWNV
 PYMANVYLIKGKTLRSEMNERNYFVRDKLDPDMALCRNAREMTLQREKDSPTPETF
 QMLSPPKGVFMYISNRHEFGRLSTANYNTSHYNNDLWQIFENPVDWKEYINRDY
 SKIFTENIVEQPCPDVFWFPIFSEKACDELVEEMEHYGKWSGGKHHDSRISGGYEN
 VPTDDIHMKQVDLENVWLHFIREFIAPVTLKVFAGYTCKGFALLNFVVKYSPERQSRSL
 RPHHDASTFTINIALNNVGEDFQGGGCKFLRYNCSIESPRKGWSFMHPGRLTHLHE
 GLPVKNGTRYIAVSFIDPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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 **PLOD2 procollagen-lysine,2-oxoglutarate 5-dioxygenase 2 [Homo sapiens (human)]**

Official Symbol **PLOD2**

Synonyms PLOD2; procollagen-lysine, 2-oxoglutarate 5-dioxygenase 2; procollagen lysine, 2 oxoglutarate 5 dioxygenase (lysine hydroxylase) 2; procollagen-lysine,2-oxoglutarate 5-dioxygenase 2; LH2; lysyl hydroxylase 2; lysyl hydroxylase 2; lysine hydroxylase 2;

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telopeptide lysyl hydroxylase; TLH;

Gene ID 5352

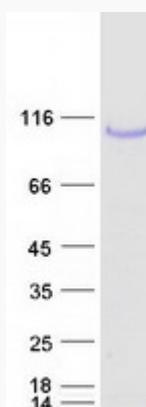
mRNA Refseq NM_182943

Protein Refseq NP_891988

MIM 601865

UniProt ID O00469

SDS-PAGE



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