

Recombinant Full Length Human PLOD2 Protein

Cat. No. PLOD2-377HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length mature Human PLOD2, isoform 2 with N terminal proprietary tag. Predicted MW 106.63 kDa.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	732 amino acids
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	Liquid
Molecular Mass	106.630kDa inclusive of tags
AA Sequence	DSEKPSSIPTDKLLVITVATKESDGFHRFMQSAKYFNNTV KVLGQGEEWRGGDGIN SIGGGQKVRMLKEVMEHYADQDDL VVMFTECFDVIFAGGPPEVLKKFQKANHKVV

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

FAADGILWP DKRLADKYPVVHIGKRYLNSGGFIGYAPYVNRIVQQWNLQ DNDDDQ
 LFYTKVYIDPLKREAINITLDHKCKIFQTLNGAV DEVVLKFENGKARAKNTFYETLPVA
 INGNGPTKILLNYFG NYVPNSWTQDNGCTLCEFDTVDL SAVDVHPNVSIGVFIEQ PT
 PFLPRFLDILLTLDYPKEALKLFIHNKEVYHEKDIKVF FDKAKHEIKTIKIVGPEENLSQ
 AEARNMGMDFCRQDEKCD YYFSVDADVLTNPRTLKILIEQNRKIIAPLVTRHGKLV
 S NFWGALSPDGYARSEDYVDIVQGNRVGVWNVPMANVYL IKGKTLRSEMNER
 NYFVRDKLDPDMALCRNAREMTLQREK DSPTPETFQMLSPPKGVFMYISNRHEFG
 RLLSTANYNTSH YNNDLWQIFENPVDWKEKYINRDYSKIFTENIVEQPCPDV FWFPI
 FSEKACDELVEEMEHYGKWSGGKHHDSRISGGYEN VPTDDIHMKQVDLENVWLHF
 IREFIAPVTLKVFAGYYTKG FALLNFVVKYSPERQSLRPHHDASTFTINIALNNVGE
 DF QGGGCKFLRYNCSIESPRKGWSFMHPGRLTHLHEGLPVKN GTRYIAVSFIDP

Purity Proprietary Purification

Storage Shipped on dry ice. Upon delivery aliquot and store at -80 centigrade. Avoid freeze / thaw cycles.

Storage Buffer pH: 8.00. Constituents: 0.79% Tris HCl, 0.31% Glutathione.

GENE INFORMATION

Gene Name [PLOD2 procollagen-lysine, 2-oxoglutarate 5-dioxygenase 2 \[Homo sapiens \]](#)

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

Gene ID [5352](#)

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mRNA Refseq	NM_000935
Protein Refseq	NP_000926
MIM	601865
UniProt ID	O00469

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