

Product datasheet for TP307610

PLOD2 (NM_182943) Human Recombinant Protein

Product data:

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| Product Type: | Recombinant Proteins |
| Description: | Recombinant protein of human procollagen-lysine, 2-oxoglutarate 5-dioxygenase 2 (PLOD2), transcript variant 1, 20 µg |
| Species: | Human |
| Expression Host: | HEK293T |
| Expression cDNA Clone or AA Sequence: | >RC207610 protein sequence Red =Cloning site Green =Tags(s) |

MGGCTVKPQLLLLALVLPWNPCLGADSEKPSIPTDKLLVITVATKESDGFHRFMQSAKYFNNTVKVLG
QGEEWRGGDGINSIGGGQKVRMLKEVMEHYADQDDLVMFTECFDVI FAGGPEEVLKFKQKANHKVWFAA
DGILWPKRLADKYPVWHIGKRYLNSGGFIGYAPYVNRIVQQWNLQDNDQDLFYTKVYIDPLKREAINI
TLDHKCKIFQTLNGAVDEVVLFKENGKARAKNTFYETLPVAINGNGPTKILLNYFGNYVPSNSWTQDNGCT
LCEFDTVDLSAVDVHPNVSIGVFIEQPTPFLPRFLDILLTLDYPKEALKLFIHNKEVYHEKDIKVFFDKA
KHEIKTIKIVGPEENLSQAEARNMGMDFCRQDEKCDYFSDADVLTNPRTLKILIEQNRKIIAPLVTR
HGKLWSNFWGALSPDGYARSEYVDIVQGNRVGVWVNPYMANVYLIKGKTLRSEMNERNYFVRDKLDPD
MALCRNAREMTLQREKDSPTPETFQMLSPPKGVFMYISNRHEFGRLSTANYNTSHYNNDLWQIFENPVD
WKEKYINRDYSKIFTENIVEQPCPDVFWFPIFSEKACDELVEEMEHYKWSGGKHHDSRISGGYENVPTD
DIHMKQVDLENVWLHFIREFIAPVTLKVFAGYYTKGFALLNFVVKYSPERQRSLRPHHDASTFTINIALN
NVGEDFQGGGCKFLRYNCSIESPRKGWSFMHPGRLTHLHEGLPVKNGTRYIAVSFIDP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

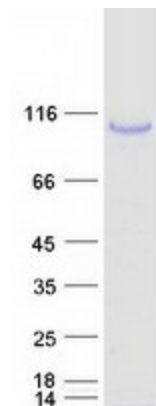
| | |
|----------------|--|
| Tag: | C-Myc/DDK |
| Predicted MW: | 84.4 kDa |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method |
| Purity: | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| Buffer: | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol |
| Preparation: | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps. |
| Note: | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. |



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| Storage: | Store at -80°C. |
| Stability: | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| RefSeq: | NP_891988 |
| Locus ID: | 5352 |
| UniProt ID: | O00469 |
| RefSeq Size: | 4072 |
| Cytogenetics: | 3q24 |
| RefSeq ORF: | 2274 |
| Synonyms: | BRKS2; LH2; TLH |
| Summary: | 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. [provided by RefSeq, Jul 2008] |
| Protein Pathways: | Lysine degradation |

Product images:



Coomassie blue staining of purified PLOD2 protein (Cat# TP307610). The protein was produced from HEK293T cells transfected with PLOD2 cDNA clone (Cat# [RC207610]) using MegaTran 2.0 (Cat# [TT210002]).