

Product datasheet for TP307610M

PLOD2 (NM_182943) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human procollagen-lysine, 2-oxoglutarate 5-dioxygenase 2 (PLOD2), transcript variant 1, 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC207610 protein sequence Red =Cloning site Green =Tags(s)

MGGCTVKPQLLLLALVLPWNPCLGADSEKPSIPTDKLLVITVATKESDGFHRFMQSAKYFNNTVKVLG
QGEEWRGGDGINSIGGGQKVRMLKEVMEHYADQDDLVMFTECFDVI FAGGPEEVLKFKQKANHKKVFAA
DGILWDPKRLADKYPVWHIGKRYLNSGGFIGYAPYVNRIVQQWNLQDNDQDLFYTKVYIDPLKREAINI
TLDHKCKIFQTLNGAVDEVVLKFEENGKARAKNTFYETLPVAINGNGPTKILLNYFGNYVPSNSWTQDNGCT
LCEFDTVDLSAVDVHPNVSIGVFIEQPTPFLPRFLDILLTLDYPKEALKLFIHNKEVYHEKDIKVFDDKA
KHEIKTIKIVGPEENLSQAEARNMGMDFCRQDEKCDYFSDADVLTNPRTLKILIEQNRKIIAPLVTR
HGKLWSNFWGALSPDGYARSEYVDIVQGNRVGVWVNPYMANVYLIKGKTLRSEMNERNYFVRDKLDPD
MALCRNAREMTLQREKDSPTPETFQMLSPPKGVFMYISNRHEFGRLSTANYNTSHYNNDLWQIFENPVD
WKEKYINRDYSKIFTENIVEQPCPDVFWFPIFSEKACDELVEEMEHYKWSGGKHHDSRISGGYENVPTD
DIHMKQVDLENVWLHFIREFIAPVTLKVFAGYYTKGFALLNFVVKYSPERQRSLRPHHDASTFTINIALN
NVGEDFQGGGCKFLRYNCSIESPRKGWSFMHPGRLTHLHEGLPVKNGTRYIAVSFIDP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

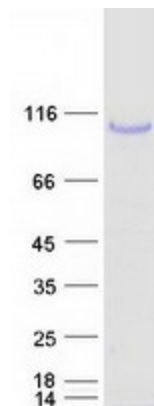
Tag:	C-Myc/DDK
Predicted MW:	84.4 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity 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]).