

Product datasheet for **TP301969L**

PLOD1 (NM_000302) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human procollagen-lysine 1, 2-oxoglutarate 5-dioxygenase 1 (PLOD1), 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA	>RC201969 protein sequence
Clone or AA Sequence:	Red =Cloning site Green =Tags(s)

MRPLLLLALLGWLLLAEKGDAPEDNLLVLTVATKETEGFRRFKRSAQFFNYKIQALGLGEDWNVEKGT
SAGGGQKVRLLKKALEKHADKEDLVILFTDSYDVLVASFASGPRELLKKFRQRSQVVFSAEELIYPDRRLET
KYPVSDGKRFLGSGGFIGYAPNLSKLVAEWEGQDSDSDQLFYTKIFLDPEKREQINITLDHRCRIFQNL
D GALDEVWLK FEMGHVRARNLAYDTLPVLIHGNGPTKLQLNYLGNYPWFWTFTGCTVCDEGLRSLKGI
GDEALPTVLVGVFIEQPTPFVSLFFQRLRLHYPQKHMRLFHNHEQHKAQVEEFLAQHGSEYQSVKLV
GPEVRMANADARNMGADLCRQDRSCTYYFSVDADVALTEPNSLRLLIQKNKVIAPLMTRHGRLWSNFWG
ALSADGYYARSEDYVDIVQGRRVGVWNVPIYSNIYLIKGSALRGELQSSDLFHHSKLDPDMAFCANIRQQ
DVMFLTNRHTLGHLLSLDSYRTHLHNDLWEVFSNPEDWKEKYIHQNYTKALAGKLVETPCPDVYWFPI
FTEVACDELVEEMEHFGQWSLGNKDNRIQGGYENVPTIDIHMNQIGFEREWHKFLLEYIAPMTEKLYPG
YYTRAQFDLAFVVRYPDEQP SLMPHHDASTFTINIALNRVGVVDYEGGGCRFLRYNCSIRAPRKGWTLMH
PGRLTHYHEGLPTTRGTRYIAVSFVDP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

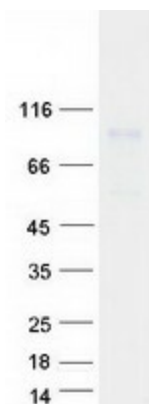
Tag:	C-Myc/DDK
Predicted MW:	81.5 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity 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_000293
Locus ID:	5351
UniProt ID:	Q02809
RefSeq Size:	3047
Cytogenetics:	1p36.22
RefSeq ORF:	2181
Synonyms:	EDS6; EDSKCL1; LH; LH1; LLH; PLOD
Summary:	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. [provided by RefSeq, Oct 2015]
Protein Families:	Druggable Genome
Protein Pathways:	Lysine degradation

Product images:



Coomassie blue staining of purified PLOD1 protein (Cat# [TP301969]). The protein was produced from HEK293T cells transfected with PLOD1 cDNA clone (Cat# [RC201969]) using MegaTran 2.0 (Cat# [TT210002]).