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Product datasheet for PH301969

PLOD1 (NM_000302) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	PLOD1 MS Standard C13 and N15-labeled recombinant protein (NP_000293)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC201969
Predicted MW:	83.6 kDa
Protein Sequence:	>RC201969 protein sequence Red=Cloning site Green=Tags(s) MRPLLLLALLGWLLLAEAKGDAKPEDNLLVLTVATKETEGFRRFKRSAQFFNYKIQALGLGEDWNVEKGT SAGGGQKVRLLKKALEKHADKEDLVILFTDSYDVLFASGPRELLKKFRQSRSQVVFSAEELIYPDRRLET KYPVVSDGKRFLGSGGFIGYAPNLSKLVAEWEGQDSDSDQLFYTKIFLDPEKREQINITLDHRCRIFQNL DGALDEVVLKFEMGHVRARNLAYDTLPVLIHGNGPTKLQLNYLGNYIPRFWTFETGCTVCDEGLRSLKGI GDEALPTVLVGVFIEQPTPFVSLFFQRLLRLHYPQKHMRLFIHNHEQHHKAQVEEFLAQHGSEYQSVKLV GPEVRMANADARNMGADLCRQDRSCTYYFSVDADVALTEPNSLRLLIQQNKNVIAPLMTRHGRLWSNFWG ALSADGYYARSEDYVDIVQGRRVGVWNVPYISNIYLIKGSALRGELQSSDLFHHSKLDPDMAFCANIRQQ DVFMFLTNRHTLGHLLSLDSYRTTHLHNDLWEVFSNPEDWKEKYIHQNYTKALAGKLVETPCPDVYWFPI FTEVACDELVEEMEHFGQWSLGNNKDNRIQGGYENVPTIDIHMNQIGFEREWHKFLLEYIAPMTEKLYPG YYTRAQFDLAFVVRYKPDEQPSLMPHHDASTFTINIALNRVGVDYEGGGCRFLRYNCSIRAPRKGWTLMH PGRLTHYHEGLPTTRGTRYIAVSFVDP TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_000293

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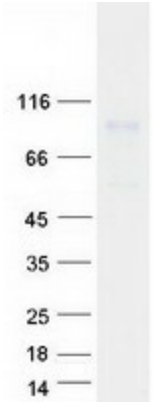
RefSeq Size:	3047
RefSeq ORF:	2181
Synonyms:	EDS6; EDSKCL1; LH; LH1; LLH; PLOD
Locus ID:	5351
UniProt ID:	Q02809
Cytogenetics:	1p36.22
Summary:	Lysyl hydroxylase is a membrane-bound homodimeric protein localized to the cisternae of the endoplasmic reticulum. The enzyme (cofactors iron and ascorbate) 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]).