

Product datasheet for PH307610

PLOD2 (NM_182943) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	PLOD2 MS Standard C13 and N15-labeled recombinant protein (NP_891988)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC207610
Predicted MW:	87.1 kDa
Protein Sequence:	>RC207610 protein sequence Red=Cloning site Green=Tags(s)

MGGCTVKPQLLLLLALVLHPWNPCLGADSEKPSIPTDKLLVITVATKESDGFHRFMQSAKYFNVTYKVLG
QGEWRGGDGINSIGGGQKVRMLKMEVMEHYADQDDLVMVFTECFDVFIFAGGPEEVLKFKQKANHKKVFAA
DGILWPKRLADKYPVVHIGKRYLNSGGFIFYAPYVNRIVQQWNLQDNDQDLFYTKVYIDPLKREAINI
TLDHKCKIFQTLNGAVDEVVLFKENGKARAKNTFYETLPVAINGNGPTKILLNYFGNYVPNSWTQDNGCT
LCEFDTVDLSAVDVHPNVSIGVIEQPTPFLPRFLDILLTDYPKEALKLFIHNKEVYHEKDIKVFDDKA
KHEIKTIKIVGPEENLSQAEARNMGMDFCRQDEKCDYFVSDADVVL TNPRTLKILIEQNRKIIAPLVTR
HGKLSNFWGALSPDGYARSEYVDIVQGNRVGVWVNPYMANVYLKIGKTLRSEMNERNYFVRDKLDPD
MALCRNAREMTLQREKDSPTPETFQMLSPPKGVFMYISNRHEFGRLSTANYNTSHYNNDLWQIFENPVD
WKEKYINRDYSKIFTENIVEQPCPDVWFPIFSEKACDELVEEMEYKWSGGKHHSRISGGYENVPD
DIHMKQVDLENVWLHFIREFIAPVTLKVFAGYYTKGFALLNFVVKYSPERQSLRPHHDASTFTINIALN
NVGEDFQGGGCKFLRYNCSIESPRKGSFMPGRLTHLHEGLPVKNGTRYIAVSFIDP

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- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-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_891988



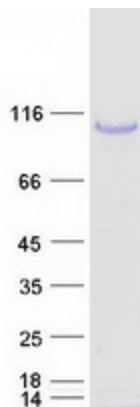
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RefSeq Size:	4072
RefSeq ORF:	2274
Synonyms:	BRKS2; LH2; TLH
Locus ID:	5352
UniProt ID:	O00469
Cytogenetics:	3q24

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]).