Recombinant Human PLOD2 Protein, Myc/DDK-tagged

Cat. No. PLOD2-35H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant protein of human procollagen-lysine, 2-oxoglutarate 5-dioxygenase 2 (PLOD2), transcript variant 1 with a C-Myc/DDK tag was expressed in HEK293T.
Species	Human
Source	HEK293
ProteinLength	1-737 aa
Description	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.
Molecular Mass	84.4 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration	>50 μg/mL as determined by microplate BCA method

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol

GENE INFORMATION

Gene Name	PLOD2 procollagen-lysine,2-oxoglutarate 5-dioxygenase 2 [Homo sapiens (human)]
Official Symbol	PLOD2
Synonyms	PLOD2; procollagen-lysine,2-oxoglutarate 5-dioxygenase 2; LH2; TLH; BRKS2; procollagen-lysine,2-oxoglutarate 5-dioxygenase 2; lysine hydroxylase 2; lysyl hydroxlase 2; lysyl hydroxylase 2; procollagen-lysine 5-dioxygenase; telopeptide lysyl hydroxylase; EC 1.14.11.4
Gene ID	5352
mRNA Refseq	NM_182943
Protein Refseq	NP_891988
MIM	601865
UniProt ID	O00469

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