

Recombinant Human PLOD3 cell lysate

Cat. No. PLOD3-1379HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
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.
Size	100 ul
Storage Buffer	1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)
Applications	Western Blot;

GENE INFORMATION

Gene Name	PLOD3 procollagen-lysine, 2-oxoglutarate 5-dioxygenase 3 [Homo sapiens]
Official Symbol	PLOD3
Synonyms	PLOD3; procollagen-lysine, 2-oxoglutarate 5-dioxygenase 3; procollagen-lysine,2-

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	oxoglutarate 5-dioxygenase 3; LH3; lysyl hydroxylase 3; lysyl hydroxylase 3; lysine hydroxylase 3;
Gene ID	8985
mRNA Refseq	NM_001084
Protein Refseq	NP_001075
MIM	603066
UniProt ID	O60568
Chromosome Location	7q22.1
Pathway	Lysine degradation, organism-specific biosystem; Lysine degradation, conserved biosystem; Other types of O-glycan biosynthesis, organism-specific biosystem; Other types of O-glycan biosynthesis, conserved biosystem;
Function	L-ascorbic acid binding; iron ion binding; metal ion binding; oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen, 2-oxoglutarate as one donor, and incorporation of one atom each of oxygen into both donors; oxidoreductase activity, acting on single donors with incorporation of molecular oxygen, incorporation of two atoms of oxygen; procollagen glucosyltransferase activity; procollagen-lysine 5-dioxygenase activity; protein binding;