

Recombinant Human PLOD1 Protein (Gln636-Pro727), N-GST tagged

Cat. No. PLOD1-3742H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human PLOD1 (Gln636-Pro727) fused with the N-GST tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Gln636-Pro727
Description	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.
Form	Lyophilized powder/frozen liquid
Molecular Mass	37.36 kDa
Purity	>90% as determined by SDS-PAGE.
Notes	For research use only.

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Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 centigrade for one week. Store at -20 to -80 centigrade for twelve months from the date of receipt.
Storage Buffer	0.01M PBS, pH 7.4, 0.02% NLS
Reconstitution	Reconstitute in sterile water for a stock solution.
Shipping	They are shipped out with dry ice/blue ice unless customers require otherwise.

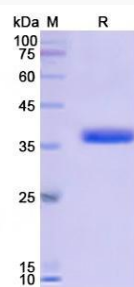
GENE INFORMATION

Gene Name	PLOD1 procollagen-lysine,2-oxoglutarate 5-dioxygenase 1 [Homo sapiens (human)]
Official Symbol	PLOD1
Synonyms	PLOD1; procollagen-lysine,2-oxoglutarate 5-dioxygenase 1; LH; LH1; LLH; EDS6; PLOD; EDSKCL1; procollagen-lysine,2-oxoglutarate 5-dioxygenase 1; lysine hydroxylase; lysyl hydroxylase 1; procollagen lysyl hydroxylase 1; procollagen-lysine 1, 2-oxoglutarate 5-dioxygenase 1; EC 1.14.11.4
Gene ID	5351
mRNA Refseq	NM_000302
Protein Refseq	NP_000293
MIM	153454
UniProt ID	Q02809

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SDS-PAGE

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