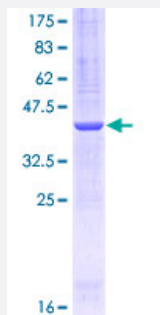


PLOD1 (Human) Recombinant Protein (Q01)

Catalog # H00005351-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human PLOD1 partial ORF (NP_000293, 19 a.a. - 114 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	KGDAKPEDNLLVLTVA TKETEGFRRFKRSAQFFNYKIQALGLGEDWNVEKGTSAGGGQKVRLK KALEKHADKEDLVILFADSYDVL FASGPPELL
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.3
Interspecies Antigen Sequence	Mouse (88); Rat (85)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — PLOD1

Entrez GeneID [5351](#)

GeneBank Accession# [NM_000302](#)

Protein Accession# [NP_000293](#)

Gene Name PLOD1

Gene Alias FLJ42041, LH, LH1, LLH, PLOD

Gene Description procollagen-lysine 1, 2-oxoglutarate 5-dioxygenase 1

Omim ID [153454](#) [225400](#) [601451](#)

Gene Ontology [Hyperlink](#)

Gene 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. [provided by RefSeq]

Other Designations OTTHUMP00000002512|lysine hydroxylase|lysyl hydroxylase|lysyl hydroxylase 1|procollagen-lysine, 2-oxoglutarate 5-dioxygenase

Pathway

- [Lysine degradation](#)

Disease

- [Genetic Predisposition to Disease](#)
- [Osteoporosis](#)
- [Ovarian Neoplasms](#)