

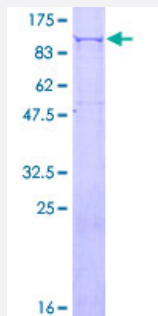
Full-Length

PLOD3 (Human) Recombinant Protein (P01)

Catalog # H00008985-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human PLOD3 full-length ORF (AAH11674.1, 1 a.a. - 738 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MTSSGPGPRFLLLLPLLLPPAASASDRPRGRDPVNPEKLLVITVATAETEGYLRFLRSAEFFNYTV
RTLGLGEEWRGGDVARTVGGGQKVRWLKKEMEKYADREDMIIMFVDSYDVILAGSPTTELLKKFV
QSGSRLLFSAESFCWPEWGLAEQYPEVGTGKRFLNSGGFIGFATTIHQVRQWKYKDDDDQLF
YTRYLDPLREKLSLNLDHKSRIQNLNGALDEVVLKFDRNRVRIQNVAYDTLPVHNGNPTKLQ
LNYLGNYPNGWTPEGGCGFCNQDRRTLPGGQPPPRVFLAVFVEQPTPFLPRFLQRLLLLDYPP
DRVTLFLHNNEVFHEPHIADSWPQLQDHFSVAVKLVGPPEALSPGEARDMAMDLCRQDPECEFY
FSLDADAVLTNLQTLRILIEENRKVIAPMLSRHGKLWSNFWGALSPDEYYARSEDYVELVQRKRVG
VWNVYPYSQAYVIRGDTLRMELPQRDVFSGSDTPDMAFCKSFRDKGIFLHLSNQHEFGRLATS
RYDTEHLHPDLWQIFDNPVDWKEQYIHENYSRALEGEQPCPDVYWFPLLSEQMCDELVAE
MEHYGQWSGGRHEDSRLAGGYENVPTVDIHMKQVGYEDQWLQLLRITYGPMTESLFPGYHTKA
RAVMNFVVRYPDEQPSLRPHHDSSTFTLNVALNHKGLDYEGGGRFLRYDCVISSPRKGWALL
HPGRLTHYHEGLPTTWGTRYIMVSFVDP

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

106.92

Interspecies Antigen Sequence

Mouse (91); Rat (90)

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 — PLOD3

Entrez GeneID	8985
GeneBank Accession#	BC011674
Protein Accession#	AAH11674.1
Gene Name	PLOD3
Gene Alias	LH3
Gene Description	procollagen-lysine, 2-oxoglutarate 5-dioxygenase 3
Omim ID	603066
Gene Ontology	Hyperlink
Gene 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. [provided by RefSeq]

Other Designations

lysine hydroxylase 3|lysyl hydroxylase 3

Pathway

- [Lysine degradation](#)

Disease

- [Disease Progression](#)
- [Disease Susceptibility](#)
- [HIV Infections](#)