

## PLOD3 Protein, Human, Recombinant (His)

## General Information

Synonyms: PLOD3; Multifunctional procollagen lysine hydroxylase and glycosyltransferase LH3

Protein Construction: 25-738 aa

Species: Human

Expression Host: HEK293 Cells

Accession: O60568

Molecular Weight: 85.9 kDa (predicted)

AA Sequence: SDRPRGRDPVNPEKLLVITVATAETEGYLRFLRSAEFFNYTVRTLGLGEEWRGGDVARTVGGGQKVRWLKKE  
MEKYADREDMIIMFVDSYDVILAGSPTSELLKFKVQSGSRLLFSAESFCWPEWGLAEQYPEVGTGKRFLNSGGFI  
GFATTIHQIVRQWKYKDDDDQLFYTRLYLDPGLREKLSLNLDHKSRIFQNLNGALDEVVLKFDNRNRVIRNV  
AYDTLPVVHNGNPTKLQLNLYLGNYPNGWTPEGGCGFCNQDRRTLPGGQPPPRVFLAVFVEQTPFLPRFL  
QRLLLLDYPPDRVTLFLHNNEVFHEPHIADSWPQLQDHFSVAVKLVGPEEALSPGEARDMAMDLCRQDPECE  
FYFSLDADAVLTNLQTLRILIEENRKVIAPMLSRHGKLSNFWGALSPDEYYARSEDYVELVQRKRVGWVNV  
YISQAYVIRGDTLRMELPQRDVFSGSDTDPDMAFCKSFRDKGIFLHLSNQHEFGRLATSRYDTEHLHPDLWQ  
IFDNPVDWKEQYIHENYSRALEGEQPCPDVYWFPLLSEQMCDELVAEMEYHGQWSSGRHEDSRLAGG  
YENVPTVDIHMKQVGYEDQWLQLLRTYVGPMTESLFPGYHTKARAVMNFVRYRPDEQPSLRPHHDSSTFT  
LNVALNHKGLDYEGGGCRFLRYDCVISSPRKGWALLHPGRLTHYHEGLPTTWGTRYIMVSFVDP

## QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

Purity: > 90% as determined by SDS-PAGE.

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: Tris-based buffer, 50% glycerol

## Preparation and Storage

## Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

## Stability &amp; Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

## Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

**Protein Background**

Multifunctional enzyme that catalyzes a series of essential post-translational modifications on Lys residues in procollagen. Plays a redundant role in catalyzing the formation of hydroxylysine residues in -Xaa-Lys-Gly-sequences in collagens. Plays a redundant role in catalyzing the transfer of galactose onto hydroxylysine groups, giving rise to galactosyl 5-hydroxylysine. Has an essential role by catalyzing the subsequent transfer of glucose moieties, giving rise to 1,2-glucosylgalactosyl-5-hydroxylysine residues. Catalyzes hydroxylation and glycosylation of Lys residues in the MBL1 collagen-like domain, giving rise to hydroxylysine and 1,2-glucosylgalactosyl-5-hydroxylysine residues. Essential for normal biosynthesis and secretion of type IV collagens. Essential for normal formation of basement membranes.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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