

## PLOD2 Protein, Mouse, Recombinant (E. coli, His &amp; Myc)

## General Information

Synonyms:	Procollagen-lysine,2-oxoglutarate 5-dioxygenase 2;Plod2;2-oxoglutarate 5-dioxygenase 2; Lysyl hydroxylase 2 (LH2)
Protein Construction:	26-737 aa
Species:	Mouse
Expression Host:	E. coli
Accession:	Q9R0B9
Molecular Weight:	85.0 kDa (predicted)
AA Sequence:	<p>VAEETPGRIPADKLLVITVATKENDGFHRFMNSAKYFNVTVKVLGQGQEWRRGGDMNSIGGGQKVRLLEA  MEHYASQEDLVILFTECFDVVFAGGPPEVLKKFQKTNHKIVFAADGLLWDPKRLADKYPVVHIGKRYLNSGGF  IGYAPYISRLVQQWNLQDNDLQDFYTKVYIDPLKREAFNITLDHKCKIFQALNGATDEVVLKFENGKSRVKN  TFYETLPVAINGNGPTKILLNYFGNYVPSWTQENGALCDVDTIDLSTVDVPPKVTGLGVFIEQPTPFLPRFLNL  LLTLDYPKEALQLFIHNKEVYHEKDIKVFDKAKHDISSIKIVGPEENLSQAEARNMGMDFCRQDEKCDYYFSV  DADVVLTPRNLKFLIEQNRKIIAPLVTRHGKLSNFWGALSPDGYARSEYVDIVQGNRVGIWNVPMAN  VYLIQGKTLRSEMNERNYFVRDKLDPDMALCRNARDMGVFMYSISNRHEFGRLISTANYNTSHLNDFWQIFE  NPVDWKEKYINRDYSKIFTENIVEQPCDVFVWPIFISERACDELVEEMEHYKWSGGKHHDSRISGGYENVPT  DDIHMKQIGLENVWLHFIREFIAPVTLKVFAGYYTKGFALLNFVVKYSPERQSLRPHHDASTFTINIALNNVGE  DFQGGGCKFLRYNCSIESPRKGSFMPHGRLLTHLHEGLPVKNGTRYIAVSFIDP</p>

## 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**

Forms hydroxylysine residues in -Xaa-Lys-Gly- sequences in collagens. These hydroxylysines serve as sites of attachment for carbohydrate units and are essential for the stability of the intermolecular collagen cross-links.

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