

Product datasheet for **TP505599**

Plod1 (BC010268) Mouse Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Purified recombinant protein of Mouse procollagen-lysine, 2-oxoglutarate 5-dioxygenase 1 (cDNA clone MGC:8124 IMAGE:3589182), complete cds, with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug

Species: Mouse

Expression Host: HEK293T

Expression cDNA Clone or AA Sequence: >MR205599 protein sequence
Red=Cloning site **Green**=Tags(s)

MGADLCRQDQTCTYYFSVDADVALTEPNSLRLLIEQNKNVIAPLMTRHGRLWSNFWGGLSADGGYARSED
YVDIVQRRVGVWNVPIYISNIYLIKGSALRAELQNVDLFHYSKLDSDMSFCANVRQQEVFMFLTNRHTFG
HLLSLDNYQTTHLHNDLWEVFSNPEDWKEKYIHENYTKALAGKLVETPCPDVYWFPIFTEAACDELVEEM
EHYGQWSLGDNDNRIQGGYENVPTIDIHMNQITFEREWHKFLVEYIAPMTEKLYPGYYTRAQFDLAFV
RYKPDEQPSLMPHHDASTFTVNIALNRVGEDYEGGGCRFLRYNCSVRAPRKGWALLHPGRLTHYHEGLPT
TKGTRYIAVSFVDP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-MYC/DDK

Predicted MW: 42.3 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

Storage: Store at -80°C after receiving vials.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

Locus ID: 18822

UniProt ID: [Q9R0E2](#)



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RefSeq Size: 1903

Cytogenetics: 4 78.57 cM

RefSeq ORF: 1092

Synonyms: Plod, LH1

Summary: Part of a complex composed of PLOD1, P3H3 and P3H4 that catalyzes hydroxylation of lysine residues in collagen alpha chains and is required for normal assembly and cross-linking of collagen fibrils (PubMed:27119146). Forms hydroxylysine residues in -Xaa-Lys-Gly- sequences in collagens (By similarity). These hydroxylysines serve as sites of attachment for carbohydrate units and are essential for the stability of the intermolecular collagen cross-links (PubMed:27119146).[UniProtKB/Swiss-Prot Function]