

Recombinant Human P4HA3 protein, His & T7-tagged

Cat. No. P4HA3-1179H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human P4HA3 aa. (Glu227~Asp544 (Accession # Q7Z4N8) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Glu227~Asp544
Description	This gene encodes a component of prolyl 4-hydroxylase, a key enzyme in collagen synthesis composed of two identical alpha subunits and two beta subunits. The encoded protein is one of several different types of alpha subunits and provides the major part of the catalytic site of the active enzyme. In collagen and related proteins, prolyl 4-hydroxylase catalyzes the formation of 4-hydroxyproline that is essential to the proper three-dimensional folding of newly synthesized procollagen chains. Alternative splicing results in multiple transcript variants.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 39.7kDa.
Endotoxin	<1.0EU per 1g (determined by the LAL method)
Purity	>95%

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Characteristic	The isoelectric point is 6.2.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	P4HA3 prolyl 4-hydroxylase subunit alpha 3 [Homo sapiens (human)]
Official Symbol	P4HA3
Synonyms	P4HA3; prolyl 4-hydroxylase subunit alpha 3; prolyl 4-hydroxylase subunit alpha-3; 4-PH alpha-3; C-P4H alpha III; collagen prolyl 4-hydroxylase alpha(III); procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), alpha polypeptide III; prolyl 4-hydroxylase, alpha polypeptide III
Gene ID	283208

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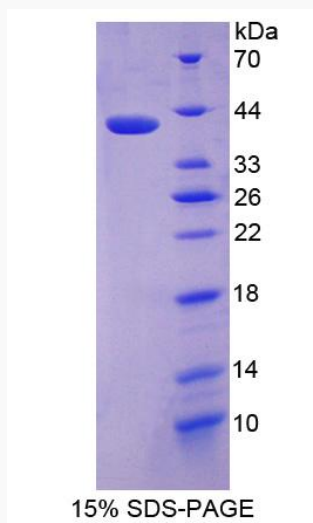
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mRNA Refseq [NM_001288748.1](#)

Protein Refseq [NP_001275677.1](#)

UniProt ID [Q7Z4N8](#)

SDS-PAGE



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