Recombinant Human P4HA2 protein, His & T7-tagged

Cat. No. P4HA2-1178H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human P4HA2 aa. (Ser207~Glu520 (Accession # O15460) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Ser207~Glu520
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. Alternatively spliced transcript variants encoding different isoforms have been described.
Form	Freeze-dried powder
Molecular Mass	43kDa as determined by SDS-PAGE reducing conditions.
Endotoxin	<1.0EU per 1μg (determined by the LAL method)
Purity	>90%

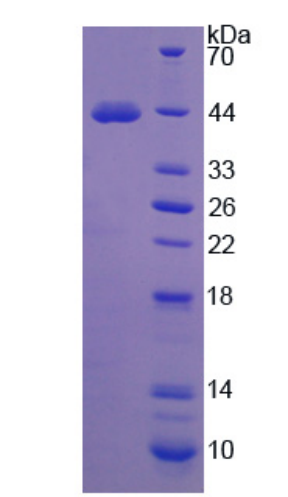
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Characteristic	The isoelectric point is 6.1.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate 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	P4HA2 prolyl 4-hydroxylase subunit alpha 2 [Homo sapiens (human)]
Official Symbol	P4HA2
Synonyms	P4HA2; prolyl 4-hydroxylase subunit alpha 2; MYP25; prolyl 4-hydroxylase subunit alpha-2; 4-PH alpha 2; C-P4Halpha(II); collagen prolyl 4-hydroxylase alpha(II); procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), alpha polypeptide II; procollagen-proline,2-oxoglutarate-4-dioxygenase subunit alpha-2; prolyl 4-hydroxylase, alpha polypeptide II
Gene ID	8974

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mRNA Refseq	NM_001017973.1
Protein Refseq	NP_001017973.1
UniProt ID	O15460
SDS-PAGE	 15% SDS-PAGE

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