

Recombinant Human P4HA1, MYC/DDK-tagged

Cat. No. P4HA1-3055TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human P4HA1 fused with C-terminal MYC/DDK, was expressed in HEK293 Cells.
Species	Human
Source	HEK293
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.
Molecular Mass	59 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Storage	Store at -80C. Avoid repeated freeze-thaw cycles. Stable for at least 3 months from receipt of products under proper storage and handling conditions.
Concentration	>50 ug/mL as determined by microplate BCA method

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Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name P4HA1 prolyl 4-hydroxylase, alpha polypeptide I [Homo sapiens(human)]

Official Symbol P4HA1

Synonyms P4HA1; P4HA1; prolyl 4-hydroxylase, alpha polypeptide I; prolyl 4-hydroxylase subunit alpha-1; C-P4Halpha(I); collagen prolyl 4-hydroxylase alpha(I); procollagen-proline,2-oxoglutarate-4-dioxygenase subunit alpha-1; procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), alpha polypeptide I; EC 1.14.11.2

Gene ID 5033

mRNA Refseq NM_000917

Protein Refseq NP_000908

MIM 176710

UniProt ID P13674

Chromosome Location 10q21.3-q23.1

Pathway Arginine and proline metabolism

Function L-ascorbic acid binding; iron ion binding; oxidoreductase activity, acting on single donors with incorporation of molecular oxygen, incorporation of two atoms of oxygen

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