Recombinant Rat P4ha1 protein, His & T7-tagged

Cat. No. P4ha1-1177R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat P4ha1 aa. (Val205~Glu534 (Accession # P54001) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Rat
Source	E.coli
ProteinLength	Val205~Glu534
Description	Catalyzes the hydroxylation of -X-Pro-Gly- triplets to form hydroxyproline.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 41.3kDa.
Endotoxin	<1.0EU per 1μg (determined by the LAL method)
Purity	>90%
Characteristic	The isoelectric point is 7.2.
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

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	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	P4ha1 prolyl 4-hydroxylase subunit alpha 1 [Rattus norvegicus (Norway rat)]
Official Symbol	P4ha1
Synonyms	P4ha1; prolyl 4-hydroxylase subunit alpha 1; PHalphaI; prolyl 4-hydroxylase subunit alpha-1; 4-PH alpha-1; procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), alpha 1 polypeptide; procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), alpha polypeptide I; procollagen-proline,2-oxoglutarate-4-dioxygenase subunit alpha-1; prolyl 4-hydroxylase alpha subunit; prolyl 4-hydroxylase, alpha polypeptide I
Gene ID	64475
mRNA Refseq	NM_172062.2
Protein Refseq	NP_742059.2

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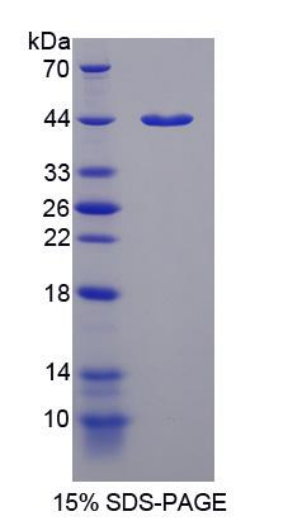
UniProt ID	P54001
SDS-PAGE	 15% SDS-PAGE

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