

Recombinant Full Length Human P3H1 Protein, C-Flag-tagged

Cat. No. P3H1-816HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human P3H1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	This gene encodes an enzyme that is a member of the collagen prolyl hydroxylase family. These enzymes are localized to the endoplasmic reticulum and their activity is required for proper collagen synthesis and assembly. Mutations in this gene are associated with osteogenesis imperfecta type VIII. Three alternatively spliced transcript variants encoding different isoforms have been described. Other variants may exist, but their biological validity has not been determined.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	83.2 kDa
AA Sequence	MAVRALKLLTLLAVVAAASQAEVESEAGWGMVTPDLLFAEGTAAYARGDWPGVVL SMERALRSRAALRA LRLRCRTQCAADFPWELDPDWSPSPAQASGAAALRDLSFFG GLLRRAACLRRC LGPPAAHSLSEEMELEF RKRSPYNYLQVAYFKINKLEKAVAAAH FFVGNPEHMEMQQNLDYYQTMSGVKEADFKDLETQPHMQEFR LGVRLYSEEQPQ EAVPHLEAALQEYFVAYEECRALCEGPYDYGYNLEYNADLFQAITDHYIQVLNCK Q NCVTELASHPSREKPFEDFLPSHYNYLQFAYYNIGNYTQAVECAKTYLLFFPNDEV MNQNLAYYAAMLGE EHTRSIGPRESAKEYRQRSLLLEKELLFFAYDVFGIPFVDPDS

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WTPEEVIPKRLQEKQKSERETAVRISQE IGNLMKEIETLVEEKTKESLDVSRLTREG
 GPLLYEGISLTMNSKLLNGSQRVVMVGVISDHECQELQRLT NVAATSGDGYRGQTS
 PHTPNEKFYGVTVFKALKLGQEGKVPLQSAHLYYNVTEKVRRIIESYFRLDTPLY FS
 YSHLVCRTAIEEVQAERKDDSHPVHVDNCILNAETLVCVKEPPAYTFRDYSAILYLNG
 DFDGGNFYFT ELDAKTVTAEVQPQCGRVAVGFSSGTENPHGVKAVTRGQRCIALW
 FTLDPRHSEDRVQADDLVKMLFSP
 EEMDLSQEQLDAQQGPPEPAQESLSGSES KPKDELTRTRPLEQKLISEEDLAANDI
 LDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Secreted Protein
Full Length	Full L.

GENE INFORMATION

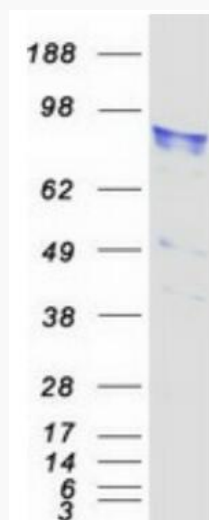
Gene Name	P3H1 prolyl 3-hydroxylase 1 [Homo sapiens (human)]
Official Symbol	P3H1

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Synonyms	OI8; GROS1; LEPRE1
Gene ID	64175
mRNA Refseq	NM_022356.4
Protein Refseq	NP_071751.3
MIM	610339
UniProt ID	Q32P28



Coomassie blue staining of purified P3H1 protein.