

Recombinant Human LEPRE1, His-tagged

Cat. No. LEPRE1-29940TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 322-736 of Human LEPRE1 with N terminal His tag; 415 amino acids, 52kDa.
Species	Human
Source	E.coli
ProteinLength	322-736 a.a.
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.
Conjugation	HIS
Form	Lyophilised:Reconstitute with 143 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

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Sequences of amino acids

ECAKTYLLFFPNDEV MNQNLAYYAAMLGEEHTRSIGPRES AKEYRQRSLLLEKELLFF
 AYDVFGIPFVDPDSWTPPEVI PKRLQEKQKSERETAVRISQEIGNLMKEIETLVEEKT
 KESLDVSRLTREGGPLLYEGISLTMNSKLLNGSQRVVMDGV ISDHECQELQRLTNV
 AATSGDGYRGQTSPTHPNEKFYG VTVFKALKLGQEGKVPLQSAHLYYNVTEKVRRI
 MESYFRLDTPLYFSYSHLVCRTAIEEVQAERKDDSHPVHVDNCIL NAETLVCVKEPP
 AYTFRDYSAILYLNGDFDGGNFYFTE LDAKTVTAEVQPQCGRVGFSSGTENPHGV
 KAVTRGQRCIALWFTLDPRHSERDRVQADDLVKMLFSPEEMDLSQEQ PLDAQQG
 PPEPAQESLSGSESKPKDEL

GENE INFORMATION

Gene Name	LEPRE1 leucine proline-enriched proteoglycan (leprecan) 1 [Homo sapiens]
Official Symbol	LEPRE1
Synonyms	LEPRE1; leucine proline-enriched proteoglycan (leprecan) 1; prolyl 3-hydroxylase 1; GROS1; growth suppressor 1; LEPRECAN; MGC117314; P3H1; prolyl 3 hydroxylase 1;
Gene ID	64175
mRNA Refseq	NM_001146289
Protein Refseq	NP_001139761
MIM	610339
Uniprot ID	Q32P28
Chromosome Location	1p34.1

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Function

L-ascorbic acid binding; binding; iron ion binding; metal ion binding;
molecular_function;

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