

Active Recombinant Human PRELP Protein, His tagged

Cat. No. PRELP-20HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human PRELP Protein (Gln21-Ile382) with an N-terminal 6-His tag was expressed in Chinese Hamster Ovary cell line.
Species	Human
Source	CHO
ProteinLength	21-382 aa
Description	The protein encoded by this gene is a leucine-rich repeat protein present in connective tissue extracellular matrix. This protein functions as a molecule anchoring basement membranes to the underlying connective tissue. This protein has been shown to bind type I collagen to basement membranes and type II collagen to cartilage. It also binds the basement membrane heparan sulfate proteoglycan perlecan. This protein is suggested to be involved in the pathogenesis of Hutchinson-Gilford progeria (HGP), which is reported to lack the binding of collagen in basement membranes and cartilage. Alternatively spliced transcript variants encoding the same protein have been observed.
Molecular Mass	42.5 kDa
N-terminal Sequence Analysis	His
Bio-Activity	Measured by its binding ability in a functional ELISA. Recombinant Human PRELP

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	binds Recombinant Human Aggrecan with an ED50 of 10.0-120 ng/mL.
Endotoxin	< 0.1 EU/μg by LAL.
Purity	> 95 % by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie Blue Staining.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after opening. 3 months, -20 to -70 centigrade under sterile conditions after opening.
Storage Buffer	Supplied as a 0.2 μm filtered solution in PBS.
Shipping	The product is shipped with dry ice or equivalent.
Reference	1. Bengtsson, E. et al. (1995) J. Biol. Chem. 270:25639. 2. Merline, R. et al. (2009) J. Cell Commun. Signal. 3:323. 3. McEwan, P.A. et al. (2006) J. Struct. Biol. 155:294.

GENE INFORMATION

Gene Name	PRELP proline and arginine rich end leucine rich repeat protein [Homo sapiens (human)]
Official Symbol	PRELP
Synonyms	PRELP; proline/arginine-rich end leucine-rich repeat protein; proline arginine rich end leucine rich repeat protein; prolargin; prolargin proteoglycan; SLRR2A; proline-arginine-rich end leucine-rich repeat protein; 55 kDa leucine-rich repeat protein of articular cartilage; MST161; MSTP161; MGC45323

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Gene ID	5549
mRNA Refseq	NM_002725
Protein Refseq	NP_002716
MIM	601914
UniProt ID	P51888

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