

## Active Recombinant Human PRELP Protein, His tagged

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

### SPECIFICATION

<b>Product Overview</b>	Active Recombinant Human PRELP Protein (Gln21-Ile382) with an N-terminal 6-His tag was expressed in Chinese Hamster Ovary cell line.
<b>Species</b>	Human
<b>Source</b>	CHO
<b>ProteinLength</b>	21-382 aa
<b>Description</b>	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.
<b>Molecular Mass</b>	42.5 kDa
<b>N-terminal Sequence Analysis</b>	His
<b>Bio-Activity</b>	Measured by its binding ability in a functional ELISA. Recombinant Human PRELP

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	binds Recombinant Human Aggrecan with an ED50 of 10.0-120 ng/mL.
<b>Endotoxin</b>	< 0.1 EU/μg by LAL.
<b>Purity</b>	> 95 % by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie Blue Staining.
<b>Storage</b>	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.
<b>Storage Buffer</b>	Supplied as a 0.2 μm filtered solution in PBS.
<b>Shipping</b>	The product is shipped with dry ice or equivalent.
<b>Reference</b>	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

<b>Gene Name</b>	PRELP proline and arginine rich end leucine rich repeat protein [ Homo sapiens (human) ]
<b>Official Symbol</b>	PRELP
<b>Synonyms</b>	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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA