

Recombinant human Chondromodulin/LECT1 protein

Catalog Number: ATGP2536

PRODUCT INFORMATION

Expression system

E.coli

Domain

214-333aa

UniProt No.

O75829

NCBI Accession No.

NP_001011705

Alternative Names

Leukocyte cell-derived chemotaxin 1 isoform 2, BRICD3, CHM-I, CHM1, MYETS1, CNMD, LECT1, Multiple myeloma tumor suppressor 1, BRICHOS domain containing 3

PRODUCT SPECIFICATION

Molecular Weight

16.2 kDa (143aa)

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M uREA, 10% glycerol

Purity

> 85% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE, Denatured

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

LECT1 is a glycosylated transmembrane protein that is cleaved to form a mature, secreted protein. The N-terminus of the precursor protein shares characteristics with other surfactant proteins and is sometimes called chondrosurfactant protein although no biological activity has yet been defined for it. The C-terminus of the precursor protein contains a 25 kDa mature protein called leukocyte cell-derived chemotaxin-1 or chondromodulin-1. The mature protein promotes chondrocyte growth and inhibits angiogenesis. This gene is

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expressed in the avascular zone of prehypertrophic cartilage and its expression decreases during chondrocyte hypertrophy and vascular invasion. The mature protein likely plays a role in endochondral bone development by permitting cartilaginous anlagen to be vascularized and replaced by bone. Recombinant human LECT1 protein, fused to His-tag at N-terminus, was expressed in *E. coli*

Amino acid Sequence

MGSSHHHHHHH SSGLVPRGSH MGSREVVRKI VPTTTKRPHS GPRSNPGAGR LNNETRPSVQ EDSQAFNPDN
PYHQEGESMT FDPRLDHEGI CCIECRRSYT HCQKICEPLG GYYPWPYNYQ GCRSACRVIM PCSWWVARIL GMV

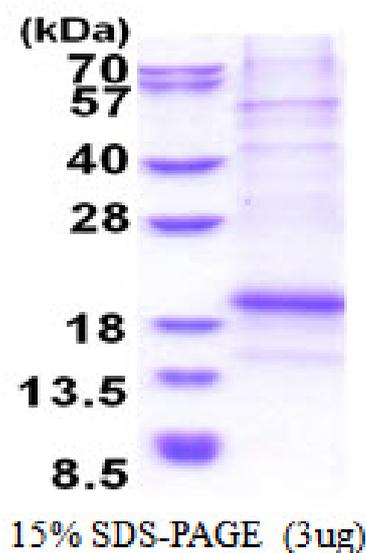
General References

Aoyama, T., et al. (2010) *J. Biol. Chem.* 285 (39), 29842-29850

Miura, S., et al. (2010) *Exp. Cell Res.* 316 (5), 775-788

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.