Recombinant human Chondromodulin/LECT1 protein

Catalog Number: ATGP2523

PRODUCT INFORMATION

Expression system
E.coli

Domain
214-334aa

UniProt No.
O75829

NCBI Accession No.
NP_008946

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
16.3 kDa (144aa)

Concentration
1mg/ml (determined by Bradford assay)

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

Purity
> 90% 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. It may be involved also in the broad control of tissue vascularization during development. Recombinant human LECT1 protein, fused to His-tag at N-terminus, was expressed in E. coli.

Amino acid Sequence

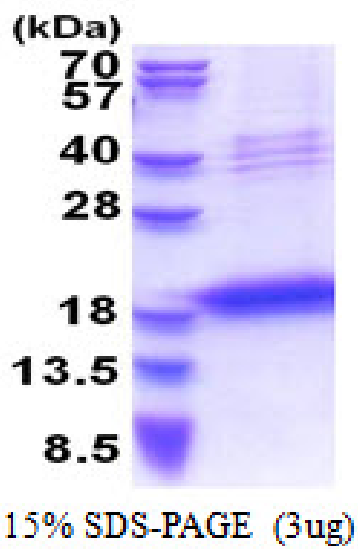
MGSSHHHHHH SSGLVPRGSH MGSREVVRKI VPTTTKRPHS GPRSNPGAGR LNNETRPSVQ EDSQAFNPDN PYHQQEGESM TFDPRLDHEG ICCIECRRSY THCQKICEPL GGYYPWPYNY QGCRSACRVI MPCSWWVARI LGMV

General References

Fujii,M., et al. (2013) J. Orthop. Res. 31 (4), 538-543

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

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