Recombinant Human leukocyte cell derived chemotaxin 1, His-tagged

Cat. No. LECT1-426H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	LECT1, 214-334aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	214-334 a.a.
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 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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M UREA, 10% glycerol

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Molecular Mass	16.3kDa (141aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSREVVRKI VPTTTKRPHS GPRSNPGAGR LNNETRPSVQ EDSQAFNPDN PYHQQEGESM TFDPRLDHEG ICCIECRRSY THCQKICEPL GGYYPWPYNY QGCRSACRVI MPCSWWVARI LGMV
Purity	>90% by SDS - PAGE
Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	1.0 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	LECT1 leukocyte cell derived chemotaxin 1 [Homo sapiens]
Official Symbol	LECT1
Synonyms	LECT1; leukocyte cell derived chemotaxin 1; multiple myeloma tumor suppressor 1 , MYETS1; leukocyte cell-derived chemotaxin 1; CHM I; CHM1; chondromodulin; chondromodulin I; chondromodulin-1; chondromodulin-I; BRICHOS domain containing 3; multiple myeloma tumor suppressor 1; CHM-I; BRICD3; MYETS1;
Gene ID	11061
mRNA Refseq	NM_001011705
Protein Refseq	NP_001011705
MIM	605147

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UniProt ID	O75829
Chromosome Location	13q14.3

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