Recombinant Human LECT-2 Protein

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Catalog No.: RP02894LQ Recombinant

Sequence Information

Species Gene ID Swiss Prot Human 3950 014960

Tags

No tag

Synonyms

chm2; chm-II; Chondromodulin II; chondromodulin-II; hLECT2; LECT2; LECT-2; leukocyte cell-derived chemotaxin 2; leukocyte cell-derived chemotaxin-2; MGC126628; MIM1

Product Information

Source Purification

HEK293 ≥ 95 % as

determined by Tris-Bis PAGE.

Bis PAGE.

Calculated MW Observed MW

Endotoxin

< 1 EU/µg of the protein by LAL method.

Formulation

 $0.22 \mu m$ filtered solution of PBS, pH 7.4.

Reconstitution

0.2 mg/mL in sterile PBS, pH7.4

Background

LECT2 (leukocyte cell-derived chemotaxin-2), also known as Chondromodulin-II, is a neutrophil chemotactic protein predominantly expressed in the liver (1). It was first identified in the heparin-binding components extracted from fetal bovine epiphyseal cartilage (2). Human LECT2 cDNA encodes a 151 amino acid (aa) precursor that includes an 18 aa signal sequence (3). The mature human LECT2 is a 16 kDa secreted hepatic protein that has a putative peptidase-M23 domain (3, 4). Human LECT2 shares 87% and 86% aa sequence identity with mouse and rat LECT2, respectively. LECT2 stimulates the growth and matrix formation of chondrocytes in vitro (2, 5, 6). In MC3T3-E1 cells, it promotes proliferation but inhibits alkaline phosphatase activity (5, 6). In vivo study suggested LECT2 can directly suppress the development of type II collagen antibody-induced arthritis (4). Recent studies have shown that LECT2 is an important regulator of tumor growth during hepatocellular carcinoma development and progression; it inhibits the angiogenic effect of HUVECs in vitro and in vivo (7).

Basic Information

Description

Recombinant human LECT-2 Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Gly19-Leu151) of human LECT-2 (Accession #) fused with additional amino acid free.

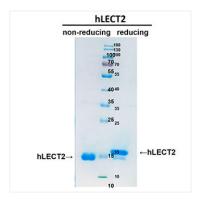
Bio-Activity

Storage

Store at -70° C. This product is stable at $\leq -70^{\circ}$ C for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature. Avoid repeated freeze-thaw cycles. Avoid repeated freeze/thaw cycles.

Contact

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Recombinant Human LECT-2 Protein was determined by Tris-Bis PAGE under reducing conditions.