

Active Human CCL11, Biotin-tagged

Cat. No. CCL11P-102H Lot. No. (See product label)

SPECIFICATION

Product Overview It is a synthetic Protein with Biotin tag.

Species Human

Description

Eotaxin is a potent eosinophil chemoattractant which was originally purified from bronchoalveolar lavage fluid of guinea pigs sensitized by aerosol challenge with ovalbumin. Microsequencing of the purified protein revealed the guinea pig eotaxin to be a member of the beta (CC) chemokine family of inflammatory and immunoregulatory cytokines. cDNA clones for guinea pig, mouse and human eotaxin have recently been isolated. Mouse eotaxin cDNA encodes a 97 amino acid protein from which the amino-terminal 23 amino acid are cleaved to generate the 74 amino acid mature mouse eotaxin. Mature mouse eotaxin is approximately 60% identical to mature human and guinea pig eotaxin. In addition, mouse eotaxin also shows high amino acid sequence identity to members of the MCP family. Mouse eotaxin is chemotactic for eosinophils, but not mononuclear cells or neutrophils. Eotaxin mRNA is expressed in a variety of tissues. The expression of eotaxin mRNA is induced in cultured endothelial cells in response to IFN- γ . In addition, eotaxin mRNA is also induced in response to the transplantation of IL-4-secreting tumor cells. The CC chemokine receptor 3 (CCR3) has now been identified to be a specific human eotaxin receptor.

Bio-activity

Activity measured by ability to human eosinophil chemotactic activity. ED50 for this measurement is generally between 10 and 40 ng/ml.

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Purity	>95%
Applications	Activity Assay
Storage	Product should be stored at -20°C. Aliquot to avoid freeze/thaw cycles
GENE INFORMATION	
Gene Name	CCL11 chemokine (C-C motif) ligand 11 [Homo sapiens]
Official Symbol	CCL11
Synonyms	CCL11; chemokine (C-C motif) ligand 11; SCYA11, small inducible cytokine subfamily A (Cys Cys), member 11 (eotaxin); eotaxin; eotaxin 1; MGC22554; eotaxin-1; C-C motif chemokine 11; small-inducible cytokine A11; eosinophil chemotactic protein; small inducible cytokine subfamily A (Cys-Cys), member 11 (eotaxin); SCYA11;
Gene ID	6356
mRNA Refseq	NM_002986
Protein Refseq	NP_002977
MIM	601156
UniProt ID	P51671
Chromosome Location	17q21.1-q21.2
Pathway	Asthma, organism-specific biosystem; Asthma, conserved biosystem; CXCR3-mediated signaling events, organism-specific biosystem; Chemokine receptors bind

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chemokines, organism-specific biosystem; Chemokine signaling pathway, organism-specific biosystem; Chemokine signaling pathway, conserved biosystem; Class A/1 (Rhodopsin-like receptors), organism-specific biosystem;

Function

chemokine activity;

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