Active Recombinant Human CCL11

Cat. No. CCL11-172H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CCL11 (P51671, 1 a.a.-97 a.a.) full-length recombinant protein. expressed in Escherichia coli.
Species	Human
Source	Human
Description	Chemokine (C-C motif) ligand 11 (CCL11) is a small cytokine belonging to the CC chemokine family that is also known as eotaxin-1. CCL11 selectively recruits eosinophils by inducing their chemotaxis, and therefore, is implicated in allergic responses. The effects of CCL11 are mediated by its binding to a G-protein-linked receptor known as a chemokine receptor. Chemokine receptors for which CCL11 is a ligand include CCR2, CCR3 and CCR5. However, it has been found that eotaxin-1 (CCL11) has high degree selectivity for its receptor, such that they are inactive on neutrophils and monocytes, which do not express CCR3. The gene for human CCL11 (scya11) is encoded on three exons and is located on chromosome 17.
Sequence	MKVSAALLWL LLIAAAFSPQ GLAGPASVPT TCCFNLANRK IPLQRLESYR RITSGKCPQK AVIFKTKLAK DICADPKKKW VQDSMKYLDQ KSPTPKP
Theoretical MW (kDa)	9
Form	Liquid
Preparation Method	E. coli expression system

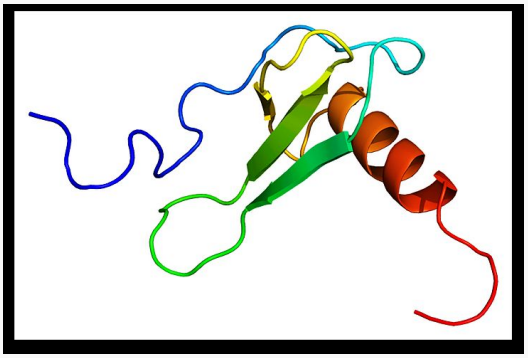
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Purity	> 97% by SDS-PAGE and HPLC
Endotoxin Level	< 0.1 ng/ug (1 EU/ug)
Activity	Activity was determined by the ability to induce chemotaxis of purified eosinophils at concentrations ranging between 50-100 ng/mL.
Application	Functional Study; SDS-PAGE
Storage Buffer	In 100 mM NaCl, 20 mM Tris (0.1 M glycerol) pH 8.0
Storage	Store at 4°C for 1 month or store at -20°C for 6 months. Aliquot to avoid repeated freezing and thawing.
Unitprot ID	P51671
Pathways	Asthma; Chemokine signaling pathway; Cytokine-cytokine receptor interaction

GENE INFORMATION

Gene Name	CCL11 chemokine (C-C motif) ligand 11 [Homo sapiens]
Official Symbol	CCL11
Synonyms	CCL11; chemokine (C-C motif) ligand 11; C-C motif chemokine 11; eotaxin; eotaxin-1; Eosinophil chemotactic protein; MGC22554; Small-inducible cytokine A11; small inducible cytokine A11; SCYA11; small inducible cytokine subfamily A (Cys-Cys), member 11 (eotaxin)
Gene ID	6356

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mRNA Refseq	NM_002986
Protein Refseq	NP_002977
MIM	601156
Chromosome Location	17q21.1-q21.2
Function	chemokine activity
PDBrendering based on 1eot.	

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