

Recombinant Mouse Chemokine (C-C Motif) Ligand 11

Cat. No. CCL11-37M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Eotaxin produced in E.Coli is a single, non-glycosylated polypeptide chain containing 74 amino acids and having a molecular mass of 8403.2 Dalton. The CCL11 is purified by proprietary chromatographic techniques.
Species	Mouse
Source	E.coli
Description	Chemokine (C-C motif) ligand 11 (CCL11) is a small cytokine belonging to the CC chemokine family that is also known as eotaxin. 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. The gene for human CCL11 (scya11) is encoded on three exons and is located on chromosome 17.
Amino Acid Sequence	The sequence of the first five N-terminal amino acids was determined and was found to be His-Pro-Gly-Ser-Ile.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Formulation	Lyophilized from a concentrated (1mg/ml) solution in water containing no additives.

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Solubility	It is recommended to reconstitute the lyophilized Eotaxin in sterile 18MΩ-cm H ₂ O not less than 100g/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	The Biological activity was determined by measuring the dose dependent phosphorylation of ERK1 and ERK2 in CCR3 transfected cells. Significant ERK phosphorylation is observed with ?100 ng/ml of recombinant mouse eotaxin.
Storage	Lyophilized Eotaxin although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution CCL11 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

GENE INFORMATION

Gene Name	Ccl11 chemokine (C-C motif) ligand 11 [Mus musculus]
Synonyms	Ccl11; chemokine (C-C motif) ligand 11; Scya11; eotaxin; small chemokine (C-C motif) ligand 11; OTTMUSP00000000791; small inducible cytokine A11
Gene ID	20292
mRNA Refseq	NM_011330
Protein Refseq	NP_035460
UniProt ID	P48298
Chromosome Location	11 C; 11 47.0 cM

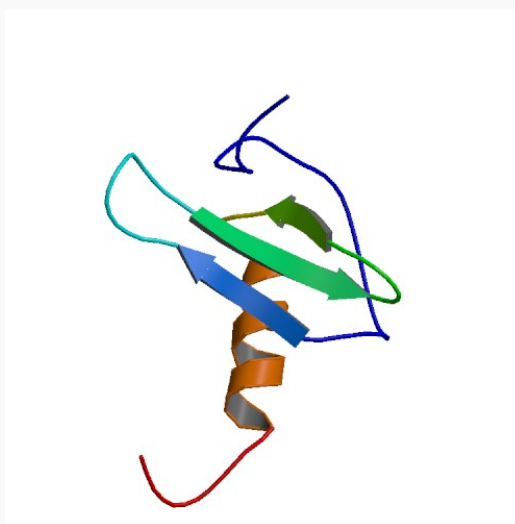
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Pathway Asthma; Chemokine signaling pathway; Cytokine-cytokine receptor interaction

Function chemokine activity; cytokine activity



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