

## Recombinant Human Chemokine (C-C Motif) Ligand 11

Human, Recombinant (CCL11)

Expressed in *E. coli*

Cat. No. CCL11-26H

Lot. No. (See product label)

### PRODUCT INFORMATION

**Product Overview:** Recombinant Human Eotaxin produced in *E. coli* is a single, non-glycosylated polypeptide chain containing 74 amino acids and having a molecular mass of 8345.9 Dalton. The CCL11 is purified by proprietary chromatographic techniques.

**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 Gly-Pro-Ala-Ser-Val.

**Formulation:** Lyophilized from a concentrated (1 mg/ml) solution in water containing no additives.

**Physical Appearance:** Sterile Filtered White lyophilized (freeze-dried) powder.

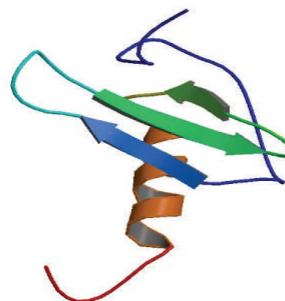
**Solubility:** It is recommended to reconstitute the lyophilized Eotaxin Human Recombinant in sterile 18MΩ-cm H<sub>2</sub>O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

**Biological Activity:** The activity is determined by the chemoattract of human PBE (peripheral blood eosinophils) at a concentration between 0.1-10 ng/ml.

**Protein Content:** Protein quantitation was carried out by two independent methods: 1. protein sequences (IntelliGenet1.protein sequences (IntelliGenetics). 2. Analysis by RP-HPLC, using a standard solution of Eotaxin as a Reference Standard.

**Purity:** Greater than 98.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

**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.



PDB rendering based on 1eot.

### GENE INFORMATION

**Gene Name:** [CCL11 chemokine \(C-C motif\) ligand 11 \[Homo sapiens\]](#)

**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)

**GeneID:** [6356](#)

**mRNA Refseq:** [NM\\_002986](#)

**Protein Refseq:** [NP\\_002977](#)

**MIM:** [601156](#)

**UniProt ID:** P51671

**Chromosome Location:** 17q21.1-q21.2

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

**Function:** chemokine activity

### REFERENCES

- Garcia-Zepeda EA, Rothenberg ME, Ownbey RT, Celestin J, Leder P, Luster AD (1996). "Human eotaxin is a specific chemoattractant for eosinophil cells and provides a new mechanism to explain tissue eosinophilia". *Nat. Med.* 2 (4): 449-56.
- Ogilvie P, Bardi G, Clark-Lewis I, Baggiolini M, Uguccioni M (2001). "Eotaxin is a natural antagonist for CCR2 and an agonist for CCR5". *Blood* 97 (7): 1920-4.

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