



Eotaxin (CCL11), rat recombinant (rrEotaxin)

Catalog No: 97431
Lot No: XXXXX
Source: *E. coli*
Synonyms: Small inducible cytokine A11, CCL11, Eosinophil chemotactic protein, chemokine (C-C motif) ligand 11, SCYA11

Background

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.

Description

Eotaxin rat recombinant produced in *E. coli* is a single, non-glycosylated polypeptide chain containing 74 amino acids and having a molecular mass of 8.4 kDa. CCL11 is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

Filtered (0.2 µm) and lyophilized from a concentrated (1 mg/ml) solution in 1×PBS, pH 7.4.

Solubility

It is recommended to reconstitute the lyophilized Eotaxin in sterile 18 MΩ-cm H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Stability

Lyophilized Eotaxin, although stable at room temperature for 3 weeks, should be stored desiccated below -18C. Upon reconstitution CCL11 should be stored at 4C between 2-7 days and for future use below -18C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Purity

Greater than 97.0% as determined by (a) Analysis by RP-HPLC, (b) Analysis by SDS-PAGE.

Amino Acid Sequence

HPGSIPTSCC FTMTSKKIPN TLLKSYKRIT NNRCTLKAIV FKTKLGKEIC ADPKKKWVQD ATKHLDQKIQ TPKP

Activity

Fully biologically active. Determined by its ability to chemoattract purified blood eosinophils using a concentration range of 0.1 - 1.0 µg/ml, corresponding to a specific activity of 10 - 100 IU/mg.

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