

Recombinant Human Eotaxin (rh Eotaxin / CCL11)

Synonyms: Small inducible cytokine A11(SCYA11), Eosinophil chemotactic protein, chemokine (C-C motif) ligand 11.

Introduction: Eotaxin is a small cytokine belonging to the CC chemokine family. It selectively recruits eosinophils by inducing their chemotaxis and is therefore implicated in allergic responses. The effects of Eotaxin are mediated by its binding to a G-protein-linked receptor known as a chemokine receptor. Chemokine receptors for which Eotaxin is a ligand include CCR2, CCR3 and CCR5. The gene for human Eotaxin is encoded on three exons and is located on chromosome 17.

Description: 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 rh Eotaxin is purified by proprietary chromatographic techniques.

Source: *Escherichia Coli*

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

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

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

Stability:

Lyophilized rh Eotaxin although stable at room temperature for 3 weeks, should be stored desiccated below -18° C. Upon reconstitution rh Eotaxin 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.

Purity: Greater than 98.0% as determined by:

- (a) Analysis by RP-HPLC.
- (b) Analysis by SDS-PAGE.

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.

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

Endotoxicity: Less than 0.1 ng/µg (IEU/µg) of rh Eotaxin.

This material is offered for **research use only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

<i>small</i>	2 µg	Cat.N°	11343212
<i>medium</i>	10 µg	Cat.N°	11343213
<i>large</i>	50 µg	Cat.N°	11343215

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