

Recombinant Murine Eotaxin (rm 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 murine Eotaxin produced in *E. Coli* is a single, non-glycosylated, polypeptide chain containing 74 amino acids and having a molecular mass of 8.4 kDa. The rm Eotaxin is purified by proprietary chromatographic techniques.

Source: *Escherichia Coli*.

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation: The protein was lyophilized from 1 mg/ml solution in water containing no additives. The aliquots of 1 µg and 2 µg contain Trehalose 5% (w/vol) for better recovery

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

Stability: Lyophilized rm Eotaxin, although stable at room temperature for 3 weeks, should be stored desiccated below -18° C. Upon reconstitution rm 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 RP-HPLC and by reducing and non-reducing SDS-PAGE Silver stained gel.

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.

Biological Activity: The activity is determined by its ability to induce chemotaxis purified eosinophils at a concentration of 100 - 1000 ng/ml.

Endotoxin: Less than 0.1 ng/µg (IEU/µg) of rm Eotaxin.

This material is offered for **research 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°	12343212
<i>medium</i>	10 µg	Cat.N°	12343213
<i>large</i>	50 µg	Cat.N°	12343215
<i>x-large</i>	250 µg	Cat.N°	12343217

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