

Recombinant Human Eotaxin (rHuEotaxin) (CCL11)

Certificate of Analysis and Data Sheet

Source: E.Coli	Catalog No. CHM-256
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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 rHuEotaxin is purified by proprietary chromatographic techniques.

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 rHuEotaxin in sterile 18MΩ-cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Stability:

Lyophilized rHuEotaxin although stable at room temperature for 3 weeks, should be stored desiccated below -18 C. Upon reconstitution rHuEotaxin 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 avoid freeze-thaw cycles.

Purity:

Greater than 98.0% as determined by:

(a) Analysis by RP-HPLC.

(b) Anion-exchange FPLC.

(c) Analysis 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 Gly-Pro-Ala-Ser-Val.

Dimers and aggregates:

Less than 1% as determined by silver-stained SDS-PAGE gel analysis.

➤ **Biological Activity:**

This rHuEotaxin is fully biologically active when compared to standard. The activity is determined by the chemoattract of human PBE (peripheral blood eosinophils) at a concentration between 0.1-10ng/ml.

➤ **Endotoxin:**

Less than 0.1 ng/μg (IEU/μg) of rHuEotaxin.

➤ **Protein content:**

Protein quantitation was carried out by two independent methods:

1. UV spectroscopy at 280 nm using the absorbency value of 1.013 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics).
2. Analysis by RP-HPLC, using a standard solution of Eotaxin as a Reference Standard.

➤ **Usage:**

This material is offered for research, laboratory or further evaluation purposes.