

Recombinant Human Eotaxin/CCL11

Information

Gene ID	6356
Accession #	P51671
Alternate Names	Small-inducible cytokine A11
Source	Escherichia coli.
M.Wt	Approximately 8.4 kDa, a single non-glycosylated polypeptide chain containing 74 amino acids.
AA Sequence	GPASVPTTCC FNLANRKIPL QRLESYRRIT SGKCPQKAVI FKTKLAKDIC ADPKKKWVQD SMKYLDQKSP TPKP
Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles - 12 months from date of receipt, -20 to -70 °C as supplied - 1 month, 2 to 8 °C under sterile conditions after reconstitution - 3 months, -20 to -70 °C under sterile conditions after reconstitution
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM PB, pH 7.4, 150 mM NaCl.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.
Biological Activity	Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using human peripheral blood eosinophils is in a concentration range of 0.1-10.0 ng/ml.
Shipping Condition	Gel pack.
Handling	Centrifuge the vial prior to opening.
Usage	For Research Use Only! Not to be used in humans.

Components and Storage

Components	5µg	100µg	500µg
Recombinant Human Eotaxin/CCL11	5µg	100µg	500µg

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- 12 months from date of receipt, -20 to -70 °C as supplied
- 1 month, 2 to 8 °C under sterile conditions after reconstitution
- 3 months, -20 to -70 °C under sterile conditions after reconstitution

Quality Control

Purity	> 97 % by SDS-PAGE and HPLC analyses.
Endotoxin	Less than 1 EU/μg of rHuEotaxin/CCL11 as determined by LAL method.

Description

Human CCL11 is belonging to the CC chemokine family. It is encoded by the gene CCL11. CCL11 was first purified from bronchoalveolar lavage fluid of guinea pigs. It was a strong and specific eosinophil chemoattractant in vitro. It can directly chemotactic for eosinophils, but not for monocytes or neutrophils. Human CCL11 is approximately 63 % identical at the amino acid level to murine CCL11. In addition, CCL11 also shows about 60 % amino acid sequence identity to human MCPs. CCR3 has been identified to be a specific CCL11 receptor.

Reference

1. Ponath PD, Qin S, Ringler DJ, et al. 1996. J Clin Invest. 97:604-12
2. Jose PJ, Griffiths-Johnson DA, Collins PD, et al. 1994. J Exp Med. 179:881-7
3. Garcia-Zepeda EA, Rothenberg ME, Ownbey RT, et al. 1996. Nat Med. 2:449-56
4. Kitamura K, Singer WD, Star RA, et al. 1996. J Biol Chem. 271:7412-5.

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