Datasheet

Cat. No. P1529

# Recombinant Rat Eotaxin/CCL11

## Information

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|---|---|
| Gene ID | 29397 |
| Accession # | P97545 |
| 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 | HPGSIPTSCC FTMTSKKIPN TLLKSYKRIT NNRCTLKAIV FKTKLGKEIC ADPKKKWVQD ATKHLDQKLQ TPKP |
| Appearance | Sterile Filtered White lyophilized (freeze-dried) powder. |
| Stability & Storage | Use a manual defrost freezer and avoid repeated freeze-thaw cycles<br>- 12 months from date of receipt, -20 to -70 °C as supplied<br>- 1 month, 2 to 8 °C under sterile conditions after reconstitution<br>- 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 purified eosinophils is in a concentration range of 0.1-1.0 μg/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 Rat Eotaxin/CCL11 | 5μg | 100μg | 500μg |

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

## Quality Control

| | |
|---|---|
| Purity | > 96 % by SDS-PAGE and HPLC analyses. |
| Endotoxin | Less than 1 EU/μg of rRtEotaxin/CCL11 as determined by LAL method. |

## Description

CCL11 encoded by the gene CCL11is belonging to the CC chemokine family. It is a potent eosinophil chemoattractant that was originally purified from bronchoalveolar lavage fluid of guinea pigs sensitized by aerosol challenge with ovalbumin. CCL11 is a strong and specific eosinophil chemoattractant in vitro. It can directly chemotactic for eosinophils, but not for monocytes or neutrophils. CCR3 has been identified to be a specific CCL11 receptor. CCR3 has also been shown to serve as a cofactor for a restricted subset of primary HIV viruses and binding of CCL11 to CCR3 inhibited infection by the HIV isolates.

## 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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