Technical Data Sheet

Recombinant Human Eotaxin (rHu Eotaxin/CCL11)

HumanEotaxin/CCL11

CCL11 is a potent eosinophil chemoattractant that was originally purified from bronchoalveolar lavage fluid of guinea pigs sensitized by aerosol challenge with ovalbumin. Human CCL11 cDNA encodes a 97 amino acid residue precursor protein from which the aminoterminal 23 amino acid residues are cleaved to generate the 74 amino acid residue mature human CCL11. At the protein sequence level, mature human CCL11 is approximately 60% identical to mature mouse and guinea pig CCL11. Human CCL11 is chemotactic for eosinophils, but not mononuclear cells or neutrophils. The CC chemokine receptor 3 (CCR3) has now been identified to be a specific human 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.

Catalog Number:	RC315-22
Source:	*Escherichia coli.*
Molecular Weight:	8.3 kDa, a single non-glycosylated polypeptide chain containing 74 amino acids.
Quantity:	5ug/20ug/1mg
Purity:	>97% by SDS-PAGE and HPLC analyses.
Biological Activity:	Fully biologically active when compared to standard. Measured by its ability to chemoattract mouse CCR3 transfected BaF3 mouse pro-B cells.The ED_{50} for this effect is typically 1-5 ng/mL.
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation:	Lyophilized from a 0.2μm filtered concentrated (1.0mg/ml) solution in 20mM PB, pH 7.4, 150mM NaCl.
AA Sequence:	GPASVPTTCC FNLANRKIPL QRLESYRRIT SGKCPQKAVI FKTKLAKDICADPKKKWVQD SMKYLDQKSP TPKP
Endotoxin:	Less than 1EU/μg of rHuEotaxin/CCL11 as determined by LAL method.
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.
Storage:	This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted

	preparation into working aliquots and store at -20°C to -70°C. **Avoid repeated freeze/thaw cycles**.
Usage:	This material is offered by Bio Basic Inc. for research, laboratory or further evaluation purposes. **NOT FOR HUMAN USE**.