

Product Data Sheet

Cat # RP-1005

Recombinant Human Eotaxin (CCL11)

Size: 5 ug

Introduction: Chemokine (C-C motif) ligand 11 (CCL11) is a small cytokine belonging to the CC chemokine family that is also known as eotaxin. CCL11 selectively recruits eosinophils by inducing their chemotaxis, and therefore, is implicated in allergic responses. The effects of CCL11 are mediated by its binding to a G-protein-linked receptor known as a chemokine receptor. Chemokine receptors for which CCL11 is a ligand include CCR2, CCR3 and CCR5. The gene for human CCL11 (scya11) is encoded on three exons and is located on chromosome 17. The activity is determined by the chemoattractant of human PBE (peripheral blood eosinophils) at a concentration between 0.1-10 ng/ml.

Source: Eotaxin Human Recombinant 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 CCL11 is purified by proprietary chromatographic techniques. The CCL11 was lyophilized from a concentrated (1 mg/ml) solution in water containing no additives.

Application & Suggested Dilutions: It is recommended to reconstitute the lyophilized Eotaxin Human Recombinant in sterile 18 MΩ-cm H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions. Greater than 98.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE. Users must optimize the appropriate concentration and conditions for each assay.

Storage & Stability: Lyophilized Eotaxin although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution CCL11 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.** If supplied in powder then reconstitute it in 100 µl water for 1 mg/ml stock and store in liquid at 4°C for ~1 week or aliquots in suitable size and store at -20°C for long term storage. If supplied in powder then reconstitute it in 100 µl water for 1 mg/ml stock and store in liquid at 4°C for ~1 week or aliquots in suitable size and store at -20°C for long term storage.

Usage: This item is for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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