

# Recombinant Human CCL11

Catalog Number: 10474-H07E



## General Information

### Gene Name Synonym:

MGC22554, SCYA11

### Protein Construction:

A DNA sequence encoding the human CCL11 (P51671) (Gly 24-Pro 97) was expressed, with a polyhistidine tag at the N-terminus.

**Source:** Human

**Expression Host:** *E.coli*

## QC Testing

**Purity:** > 97 % as determined by SDS-PAGE.

### Endotoxin:

Please contact us for more information.

### Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

**Predicted N terminal:** Met

### Molecular Mass:

The recombinant human CCL11 consists of 93 amino acids and has a calculated molecular mass of 10.8 kDa. The apparent molecular mass of the protein is approximately 14 kDa in SDS-PAGE under reducing conditions.

### Formulation:

Lyophilized from 0.2µm filtered solution of PBS, 10% glycerol, pH7.5. Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

### SDS-PAGE:

## Usage Guide

### Storage:

Store it under sterile conditions at -70°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

**Avoid repeated freeze-thaw cycles.**

### Reconstitution:

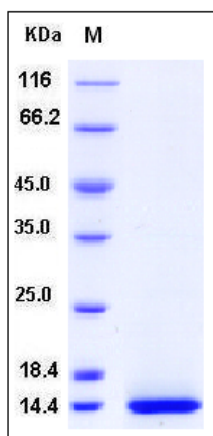
Detailed reconstitution instructions are sent along with the products.

## Protein Description

Chemokines are a family of small chemotactic cytokines, or proteins secreted by cells. Chemokines share the same structure similarities such as small size, and the presence of four cysteine residues in conserved locations in order to form their 3-dimensional shape. Some of the chemokines are considered pro-inflammatory which can be induced to recruit cells of the immune system to a site of infection during an immune response, while others are considered homeostatic and are implied in controlling the migration of cells during normal processes of tissue maintenance and development. There are four members of the chemokine family: CC chemokines, C chemokines, CXC chemokines and CX3C chemokines. The CC chemokines have two cysteines nearby the amino terminus. There have been at least 27 distinct members of this subgroup reported for mammals, called CC chemokine ligands (CCL)-1 to 28. CCL11 is a member of the CC chemokine ligands family. CCL11 is implicated in allergic responses through selectively recruiting eosinophils by inducing their chemotaxis. The effects of CCL11 are mediated by its binding to chemokine receptor. Increased CCL11 levels in blood plasma are associated with aging in mice.

### References

1. Laing KJ. et al., 2004, Developmental and comparative immunology. 28(5): 443-60.
2. Cocchi F. et al., 1995, Science. 270 (5243): 1811-5.
3. Villeda SA. et al., Nature. 477: 90-4.



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