

DESCRIPTION

Source *E. coli*-derived
His24-Pro97
Accession # P48298

N-terminal Sequence Analysis His24

Predicted Molecular Mass 8.4 kDa

SPECIFICATIONS

Activity Measured by its ability to chemoattract BaF3 mouse pro-B cells transfected with mouse CCR3.
The ED₅₀ for this effect is 1-5 ng/mL.

Endotoxin Level <0.10 EU per 1 µg of the protein by the LAL method.

Purity >97%, by SDS-PAGE under reducing conditions and visualized by silver stain.

Formulation Lyophilized from a 0.2 µm filtered solution in Acetonitrile and TFA. See Certificate of Analysis for details.

PREPARATION AND STORAGE

Reconstitution Reconstitute at 100 µg/mL in sterile PBS.

Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

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.

BACKGROUND

CCL11 is a potent eosinophil chemoattractant that was originally purified from bronchoalveolar lavage fluid of guinea pigs sensitized by aerosol challenge with ovalbumin. Microsequencing of the purified protein revealed the guinea pig CCL11 to be a member of the beta (CC) chemokine family of inflammatory and immunoregulatory cytokines. cDNA clones for guinea pig, mouse and human CCL11 have been isolated. Mouse CCL11 cDNA encodes a 97 amino acid residue precursor protein from which the amino-terminal 23 amino acid residues are cleaved to generate the 74 amino acid residue mature mouse CCL11. At the protein sequence level, mature mouse CCL11 is approximately 60% identical to mature human and guinea pig CCL11. In addition, mouse CCL11 also shows high amino acid sequence identity to members of the MCP family. Mouse CCL11 is chemotactic for eosinophils, but not mononuclear cells or neutrophils. CCL11 mRNA is expressed in a variety of tissues. The expression of CCL11 mRNA is induced in cultured endothelial cells in response to IFN-γ. In addition, CCL11 mRNA is also induced in response to the transplantation of IL-4-secreting tumor cells. The CC chemokine receptor 3 (CCR3) has now been identified to be a specific human CCL11 receptor.

References:

1. Rothenberg, M.E. *et al.* (1995) Proc. Natl. Acad. Sci. USA **92**:8960.
2. Kitaura, M. *et al.* (1996) J. Biol. Chem **271**:7725.
3. Garcia-Zepeda, E.A. *et al.* (1996) Nature Medicine **2**:449.
4. Ponath, P.D. *et al.* (1996) J. Clin. Invest. **97**:604.