Recombinant Human CCL26/Eotaxin-3

Catalog Number: 653-E3

DESCRIPTION

Source	*E. coli*-derived Ser27-Leu94 Accession # Q9Y258
N-terminal Sequence Analysis	Ser27
Predicted Molecular Mass	8.2 kDa

SPECIFICATIONS

Activity	Measured by its ability to chemoattract BaF3 mouse pro-B cells transfected with mouse CCR3. The ED_{50} for this effect is 0.3-1.5 µg/mL.
Endotoxin Level	<0.01 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 with BSA as a carrier protein. See Certificate of Analysis for details.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 25 µg/mL in sterile PBS containing at least 0.1% human or bovine serum albumin.
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

Eotaxin-3, also named CCL26 or SCYA26, is a novel human CC chemokine that maps to chromosome 7q11.2, within 40 kilobases of the Eotaxin-2 loci. Eotaxin-3/CCL26 has been shown to be constitutively expressed in the heart and ovary. In addition, low levels of Eotaxin-3/CCL26 expression can also be detected in various tissues. The expression of Eotaxin-3/CCL26 in vascular endothelial cells has been shown to be up-regulated by IL-13 and IL-4.

Eotaxin-3/CCL26 cDNA encodes a 94 amino acid (aa) residue protein with a putative signal peptide of either 23 or 26 aa residues. RecombinantEotaxin-3/CCL26 has been produced in insect cells using a baculovirus expression system and shown to contain 71 aa residues. RecombinantEotaxin-3/CCL26 is chemotactic for eosinophils and PHA-activated T cells. Eotaxin-3/CCL26 induces calcium flux in eosinophils as well as in CCR3-transfected cells. Eotaxin-3/CCL26 has also been shown to cross-desensitize cells to other CCR3 ligands. Both the 71 aa residue and 68 aa residue variants of recombinant Eotaxin-3 have been expressed in *E. coli* and found to have equal potency in inducing chemotaxis of a human CCR3-transfected cell line.

References:

1. Gou, R-F. *et al.* (1999) Genomics **58**:313.
2. Kitamura, M. *et al.* (1999) J. Biol. Chem. **274**:27975.
3. Shinkai, A. *et al.* (1999) J. Immunol. **163**:1602.

bio-techne®
Global bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956
USA TEL 800 343 7475 Canada TEL 855 668 8722 China TEL +86 (21) 52380373
Europe | Middle East | Africa TEL +44 (0)1235 529449