Recombinant Protein Technical Manual

Recombinant Human CCL16 Protein

RPES4760

Product Data:

Product SKU: RPES4760

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: O15467

Protein Information:

Molecular Mass: 11.0 kDa

AP Molecular Mass: 14 kDa

Tag:

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.4.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: C-C Motif Chemokine 16; Chemokine CC-4; HCC-4; Chemokine LEC; IL0-Inducible Chemokine; LCC; Liver-Expressed Chemokine; Lymphocyte and Monocyte Chemoattractant; LMC; Monotactin; MTN; NCC-4; Small-Inducible Cytokine A16; CCL16; ILINCK; NCC4; SCYA16

Immunogen Information:

Sequence: Gln24-Gln120

Background:

CCL16 is a member of CC chemokine family. CCL16 cDNA encodes a 120 amino acid peptide along with a 23 amino acids signal peptide that is cleaved to generate 97 amino acid protein. CCL16 is distantly related to other CC chemokines, showing less than 30% sequence identity. CCL16 elicits its effects on cells by interacting with cell surface chemokine receptors such as CCR1, CCR2, CCR5 and CCR8. Recombinant CCL16 has been shown to chemoattract human monocytes and THP1 cells but not resting lymphocytes nor neutrophils. CCL16 has potent myelosuppressive activity, suppresses proliferation of myeloid progenitor cells. CCL16ninduces a calcium flux in THP1 cells that can be desensitized by prior exposure to RANTES, suggesting that CCL16 and RANTES share the same receptor in THP1 cells.