Recombinant Mouse CCL28

Catalog Number: 533-VI

DESCRIPTION

Source	*E. coli*-derived Ile23-Arg130 Accession # Q9JIL2
N-terminal Sequence Analysis	Ile23
Predicted Molecular Mass	12.3 kDa

SPECIFICATIONS

Activity	Measured by its ability to chemoattract BaF3 mouse pro-B cells transfected with mouse CCR10. The ED_{50} for this effect is 0.3-1 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 PBS 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

Mouse CCL28 (CC chemokine ligand 28) is a novel CC chemokine cloned from a Rag-1 mouse kidney cDNA library. Mouse CCL28 cDNA encodes a 130 amino acid (aa) residue precursor protein with a putative 22 aa residue signal peptide that is cleaved to produce the 108 aa residue mature protein. Human and mouse CCL28 are highly conserved, sharing 83% aa identity in their mature regions. Among CC chemokines, CCL28 shares the most homology with CCL27/CTACK. The mouse CCL28 gene has been mapped to the distal region of chromosome 13. Mouse CCL28 is produced by epithelial cells. Based on Northern blot analysis, it is mainly expressed in testes, kidney and brain. The receptor for CCL28 has been identified as the CCR10 (GPR2 orphan receptor) which is also the receptor for CCL27/CTACK.

References:

1. Wang, W. *et al.* (2000) J. Biol. Chem. **275**:22313.

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