Recombinant Mouse CCL1/I-309/TCA-3
Catalog Number: 845-TC/CF

DESCRIPTION

Source
Mouse myeloma cell line, NS0-derived mouse CCL1/I-309/TCA-3 protein
Lys24-Cys92
Accession # P10146

N-terminal Sequence Analysis
Lys24

Predicted Molecular Mass
7.8 kDa

SPECIFICATIONS

SDS-PAGE
13-16 kDa, reducing conditions

Activity
Measured by its ability to chemoattract BaF3 mouse pro-B cells transfected with mouse CCR8.
The ED50 for this effect is 0.5-2.0 ng/mL.

Endotoxin Level
<0.01 EU per 1 μg of the protein by the LAL method.

Purity
>95%, 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

Mouse TCA-3 is a member of the CC beta family of chemokines. The human chemokine I-309, which shares approximately 42% amino acid (aa) sequence identity, has been assumed to be the homologue of mouse TCA-3. Mouse TCA-3 and human I-309 also share significant sequence homology in the 5' flanking region of their genes and each contain an extra pair of cysteine residues not found in most other chemokines.

TCA-3 cDNA encodes a 92 aa residue precursor protein with a predicted 23 aa signal peptide that is cleaved to produce a 69 aa mature protein. The sequence of TCA-3 contains one potential N-linked glycosylation site. Mouse TCA-3 is found on the distal portion of mouse chromosome 11 in a cluster with MIP-1α, MIP-1β and JE. TCA-3 acts by binding to the seven transmembrane spanning G-protein-coupled receptor, CCR8. TCA-3 has been shown to chemoattract T-cells.

References: