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Recombinant Mouse CCL2 protein(His Tag)

Catalog No. PKSM041504

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Synonyms 1110006O16Rik;1700006N07Rik;Zcyto;Zcyto7

Species Mouse
Expression Host E.coli

Sequence Gln 24-Asn 148

Accession P10148

Calculated Molecular Weight 14.7 kDa

Observed molecular weight 17-25 kDa

Tag N-His

Bioactivity Measure by its ability to chemoattract BaF3 cells transfected with CCR2A. The

 ED_{50} for this effect is < 8 ng/mL.

Properties

Purity > 98 % as determined by reducing SDS-PAGE.

Endotoxin < 0.1 EU per µg of the protein as determined by the LAL method.

Storage Generally, 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°C for 2-7 days. Aliquots

of reconstituted samples are stable at < -20°C for 3 months.

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

Formulation Lyophilized from sterile PBS, pH 7.4.

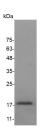
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

protectants before lyophilization.

Please refer to the specific buffer information in the printed manual.

Reconstitution Please refer to the printed manual for detailed information.

Data



> 98 % as determined by reducing SDS-PAGE.

Background

The chemokine (C-C motif) ligand 2 (CCL2), also known as monocyte chemoattractant protein (MCP)-1 and small

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inducible cytokine A2 (SCYA2)), is a small cytokine that belongs to the CC chemokine family responsible for monocyte attraction. Its cognate receptor, CCR2, play a critical role in regulating nociceptive processes during neuropathic pain. Both CCL2 and CCR2 are implicated in induction of autoimmunity. CCL2 recruits monocytes, memory T cells, and dendritic cells to the sites of inflammation produced by either tissue injury or infection. Recently research also showed that CCL2 might be useful as a biomarker of fibrosis as well as a target for therapeutic intervention.

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