Recombinant Human CCL2/MCP-1 Protein

Catalog No. PKSH032190

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

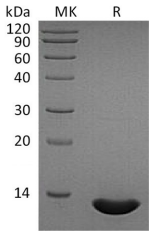
Description

Synonyms	C-C motif chemokine 2;HC11;Monocyte chemoattractant protein 1;Monocyte chemotactic and activating factor;MCAF;Monocyte chemotactic protein 1;MCP-1;Monocyte secretory protein JE;Small-inducible cytokine A2;CCL2
Species	Human
Expression Host	E.coli
Sequence	Gln24-Thr99
Accession	P13500
Calculated Molecular Weight	9.5 kDa
Observed molecular weight	11 kDa
Tag	N-His
Bioactivity	Measure by its ability to chemoattract BaF3 cells transfected with human CCR2A.The ED_{50} for this effect is < 20 ng/mL.

Properties

Purity	> 95 % 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℃. 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 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



> 95 % as determined by reducing SDS-PAGE.

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Background

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