

CCL2 Protein, Rat, Recombinant (His)

General Information

Synonyms:	C-C motif chemokine 2; Small-inducible cytokine A2; Monocyte chemotactic protein 1; Monocyte chemoattractant protein 1; Scya2; MCP-1; Ccl2
Protein Construction:	Gln24-Asn148
Species:	Rat
Expression Host:	HEK293 Cells
Accession:	P14844
Molecular Weight:	27-37 kDa (reducing condition)
AA Sequence:	Gln24-Asn148

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Monocyte chemoattractant protein 1 (MCP-1), also called CCL2, is a member of the beta (C-C) subfamily of chemokines that is a chemoattractant for monocytes and basophils but not eosinophils or neutrophils. CCL2 binds the cognate receptor CCR2, and together this signaling pair has been shown to have multiple pro-tumorigenic roles, from mediating tumor growth and angiogenesis to recruiting and usurping host stromal cells to support tumor progression. CCL2 is found in the circulation, where it has been suggested as a diagnostic biomarker of

breast cancer and prostate cancer. CCL2 can also induce arachidonic acid release in human monocytes, which has been shown to be involved in adhesion and induction of the chemotactic response, in a pertussis-toxinsensitive manner.

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