Recombinant rat CCL2/MCP-1 protein

Catalog Number: ATGP4002

PRODUCT INFORMATION

Expression system
Baculovirus

Domain
24-148aa

UniProt No.
P14844

NCBI Accession No.
NP_113718

Alternative Names
C-C motif chemokine 2, HC11, JE, MCAF, MCP-1, MCP1, Scya2, Sigje, SMC-CF, Immediate-early serum-responsive protein JE, Monocyte chemoattractant protein 1, Monocyte chemotactic protein 1, Small-inducible cytokine A2

PRODUCT SPECIFICATION

Molecular Weight
15.1kDa (134aa)

Concentration
0.5mg/ml (determined by Absorbance at 280nm)

Formulation
Liquid. In Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity
> 90% by SDS-PAGE

Endotoxin level
< 1 EU per 1ug of protein (determined by LAL method)

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
Chemokine (C-C motif) ligand 2 (CCL2) is a small cytokine belonging to the CC chemokine family that is also known as monocyte chemotactic protein-1 (MCP-1). CCL2 recruits monocytes, memory T cells, and dendritic cells to sites of tissue injury and infection. It binds to chemokine receptors CCR2 and CCR4. It also induces enzyme

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and cytokine release by monocytes, NK cells and lymphocytes, and histamine release by basophils, primarily due to interaction with CCR2 receptors on these cells. It has been implicated in the pathogenesis of diseases characterized by monocytic infiltrates, like psoriasis, rheumatoid arthritis and atherosclerosis. Recombinant rat CCL2/JE/MCP-1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

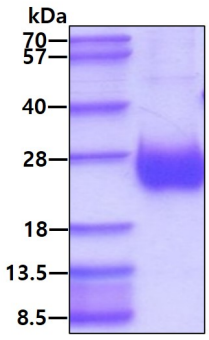
<ADP>QPDAVNA PLTCCYSFTG KMIPMSRLEN YKRITSSRCP KEAVVFVTKL KREICADPNK EWVQKYIRKL DQNQVRSETT VFYKIASTLR TSAPLNVNLT HKSEANASTL FSTTTSSTSV EVTSMTEN<HH HHHH>

General References

Foresti ML, Arisi GM, et al. (2009). J Neuroinflammation. 6:40.
Semple BD, Bye N, et al. (2010). J Cereb Blood Flow Metab. 30:769-782.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain