

Recombinant human CCL2/MCP-1 protein

Catalog Number: CCL0905

PRODUCT INFORMATION

Expression system

E.coli

Domain

24-99aa

UniProt No.

P13500

NCBI Accession No.

NP_002973

Alternative Names

C-C motif chemokine ligand 2, Small inducible cytokine A2, SCYA2, Monocyte chemotactic protein 1 homologous to mouse Sig-je, Monocyte chemotactic and activating factor, Monocyte secretory protein JE, Small inducible cytokine subfamily A member 2, MCP1, MCP-1, MCAF, SMC-CF, GDCF-2, HC11, MGC9434

PRODUCT SPECIFICATION

Molecular Weight

10.9 kDa (97aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT 20% 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

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to sites of tissue injury and infection. It has been implicated in the pathogenesis of diseases characterized by monocytic infiltrates, like psoriasis, rheumatoid arthritis and atherosclerosis. It binds to chemokine receptors CCR2 and CCR4. Recombinant human CCL2 protein, fused to His-tag at N-terminus, was expressed in *E. coli* and purified by using conventional chromatography techniques.

Amino acid Sequence

MGSSHHHHHH SGLVPRGSH MQPDAINAPV TCCYNFTNRK ISVQRLASYR RITSSKCPKE AVIFKTIVAK EICADPKQKW
VQDSMDHLDK QTQTPKT

General References

Serbina NV., et al. (2008) *Annu Rev Immunol.* 26:421-52

Rafei M., et al. (2009) *J Immunol.* 182(10):5994-6002

DATA

SDS-PAGE

(kDa)

70
57

40

28

18

13



3 μ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3 μ g)