

CCL2/JE/MCP-1 recombinant protein

Recombinant human CCL2/JE/MCP-1 protein

CATALOG # AAA48416	HOST HEK293	APPLICATIONS SDS-Page
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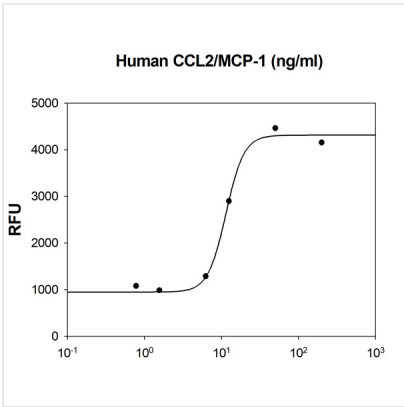
PRODUCT SYNONYMS

CCL2/JE/MCP-1; Recombinant human CCL2/JE/MCP-1 protein; C-C motif chemokine 2; CCL2; GDCF-2; HSMCR30; HC11; JE; MCAF; MCP-1; MCP1; Scya2; Sigje; SMC-CF; Immediate-early serum-responsive protein JE; Monocyte chemoattractant protein 1; Small-inducible cytokine A2; CCL2/JE/MCP-1 recombinant protein

PRODUCT SPECIFICATIONS

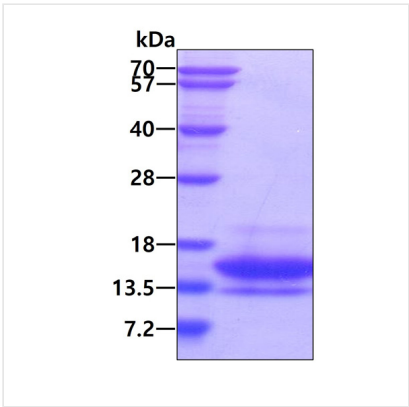
Host	HEK293
Purity/Purification	> 90% by SDS-PAGE
Form/Format	Liquid. In Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol
Concentration	0.25mg/ml (determined by Absorbance at 280nm) (varies by lot)
Sequence Positions	24-99aa
Sequence	QPDAINAPVT CCYNFTNRKI SVQRLASYRR ITSSKCPKEA VIFKTIVAKE ICADPKQKWV QDSMDHLDKQ TQTPKT
Applicable Applications for CCL2/JE/MCP-1 recombinant protein	Bioactivity, SDS-PAGE
Species	Human
Tag	His-Tag
Predicted Nterm	Gln 24
Endotoxin	< 1 EU per 1ug of protein (determined by LAL method)
Bioactivity	Measured its ability to chemoattract using THP-1 human acute monocytic leukemia cells. The ED50 range <= 30 ng/ml.
Preparation and Storage	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.

IMAGES



Bioactivity

Human CCL2/MCP-1 chemoattracts the the THP-1 human acute monocytic leukemia cells.
The ED50 range



SDS-PAGE

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

ADDITIONAL INFORMATION

Related Product Information for CCL2/JE/MCP-1 recombinant protein	CCL2 (Chemokine ligand 2), as known as MCP-1(monocyte chemotactic protein-1), is a small cytokine belonging to the CC chemokine family. This protein 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 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 human CCL2/JE/MCP-1, fused to His-tag at C-terminus, was expressed in HEK293 and purified by using conventional chromatography techniques.
Product Categories/Family for CCL2/JE/MCP-1 recombinant protein	Immunology; Hormones & Cytokines
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.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4506841
NCBI GeneID	6347
NCBI Accession #	NP_002973.1
NCBI GenBank Nucleotide #	NM_002982.3
UniProt Accession #	P13500; Q9UDF3; B2R4V3
Molecular Weight	11kDa
NCBI Official Full Name	C-C motif chemokine 2
NCBI Official Synonym Full Names	chemokine (C-C motif) ligand 2
NCBI Official Symbol	CCL2
NCBI Official Synonym Symbols	HC11; MCAF; MCP1; MCP-1; SCYA2; GDCF-2; SMC-CF; HSMCR30
NCBI Protein Information	C-C motif chemokine 2; small-inducible cytokine A2; monocyte secretory protein JE; monocyte chemotactic protein 1; monocyte chemoattractant protein 1; monocyte chemoattractant protein-1; monocyte chemotactic and activating factor; small inducible cytokine
UniProt Protein Name	C-C motif chemokine 2
UniProt Gene Name	CCL2

UniProt Synonym Gene Names	MCP1; SCYA2; MCAF; MCP-1
UniProt Entry Name	CCL2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/ccl2-recombinant-protein-hek293-bioactivity-sds-page/48416>