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Product datasheet for TP728301M

Recombinant CCL3 (C-C Motif Chemokine Ligand 3), Mouse

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant CCL3 (C-C Motif Chemokine Ligand 3), Mouse
Species:	Mouse
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	APYGADTPTACCFSYSRKIPRQFIVDYFETSSLCSQPGVIFLTKRNRQICADSKETWVQEYITDLELNA with polyhistidine tag at the N-terminus.
Tag:	His Tag (N-term)
Predicted MW:	The protein has a calculated MW of 8.69 kDa. The protein migrates about 11 kDa under reducing condition (SDS-PAGE analysis).
Purity:	>98% as determined by SDS-PAGE.
Buffer:	The protein was lyophilized from a 0.2 μm filtered solution containing 1X PBS, pH 7.4.
Bioactivity:	Measure by its ability to chemoattract human PBMCs using a concentration range of 10.0 - 100.0 ng/mL. Note: Results may vary from different PBMC donors.
Endotoxin:	<0.1 EU per 1 μg of the protein by the LAL method.
Reconstitution Method:	Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H_2O to a concentration not less than 100 μg/mL and incubate the stock solution at room temperature for at least 20 mins to ensure sufficient re-dissolved. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.
Applications:	Cell culture
Storage:	Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles.
UniProt ID:	P10855
Synonyms:	MIP-1a: Macrophage Inflammatory Protein-1α, LD78α

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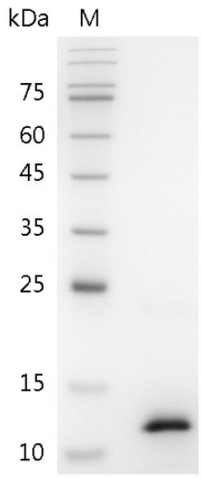
Summary: C-C Motif Chemokine Ligand 3 (CCL3) is a 7.66 kDa cytokine with 69 amino acid residues. CCL3, also known as macrophage inflammatory protein 1-alpha (MIP-1-alpha), is expressed in the spleen, lung, and articular cartilage. Upon binding to the receptor, CCR1, CCR4, or CCR5, CCL3 plays a vital role in immune response, such as inflammation, recruitment of immune cells, and production of IL-1β and TNF. In addition, CCL3 also participates in resistance to type 1 virus infection, astrocyte cell migration, regulation of macromolecule metabolic process, and regulation of ERK1 and ERK2 cascade.

Product images:



SDS- PAGE analysis of recombinant mouse CCL3