

## Recombinant Mouse X-C motif chemokine ligand 10 Protein, Tag Free

Cat. No. Cxcl10-190M Lot. No. (See product label)

### SPECIFICATION

#### Product Overview

Recombinant mouse CXCL10 protein (P17515) (Ile 22-Pro 98) without tag was expressed in HEK293.

#### Species

Mouse

#### Source

HEK293

#### ProteinLength

22-98aa

#### Description

Pro-inflammatory cytokine that is involved in a wide variety of processes such as chemotaxis, differentiation, and activation of peripheral immune cells, regulation of cell growth, apoptosis and modulation of angiostatic effects. Plays thereby an important role during viral infections by stimulating the activation and migration of immune cells to the infected sites. Mechanistically, binding of CXCL10 to the CXCR3 receptor activates G protein-mediated signaling and results in downstream activation of phospholipase C-dependent pathway, an increase in intracellular calcium production and actin reorganization. In turn, recruitment of activated Th1 lymphocytes occurs at sites of inflammation. Activation of the CXCL10/CXCR3 axis also plays an important role in neurons in response to brain injury for activating microglia, the resident macrophage population of the central nervous system, and directing them to the lesion site. This recruitment is an essential element for neuronal reorganization.

#### Tag

Non

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<b>Molecular Mass</b>	9.1 kDa
<b>Endotoxin</b>	Less than 1.0 EU/μg by the LAL method.
<b>Purity</b>	>95% as determined by SDS-PAGE.
<b>Storage</b>	Please avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade. It is recommended that aliquot the reconstituted solution to minimize freeze-thaw cycles.
<b>Storage Buffer</b>	Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4, 5% Trehalose, 5% mannitol.
<b>Reconstitution</b>	Reconstitute at 250 μg/mL in sterile water.

## GENE INFORMATION

<b>Gene Name</b>	Cxcl10 C-X-C motif chemokine ligand 10 [ <i>Mus musculus</i> (house mouse) ]
<b>Official Symbol</b>	Cxcl10
<b>Synonyms</b>	CXCL10; chemokine (C-X-C motif) ligand 10; C-X-C motif chemokine 10; gamma-IP10; interferon activated gene 10; small-inducible cytokine B10; interferon-gamma induced protein CRG-2; interferon-gamma-induced protein CRG-2; 10 kDa interferon gamma-induced protein; small inducible cytokine B subfamily (Cys-X-Cys), member 10; C7; IP10; CRG-2; INP10; IP-10; lfi10; mob-1; Scyb10; gIP-10;
<b>Gene ID</b>	15945
<b>mRNA Refseq</b>	NM_021274

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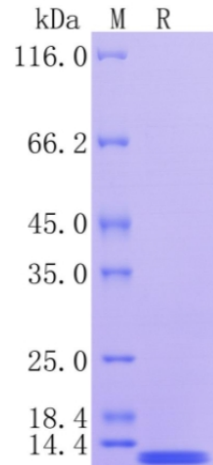
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Protein Refseq NP\_067249

UniProt ID P17515

Protein on SDS-PAGE under reducing (R) condition.



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