

Product datasheet for TP723253

Cxcl10 (NM_021274) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse chemokine (C-X-C motif) ligand 10 (Cxcl10).
Species:	Mouse
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	IPLARTVRCN CIHIDDGPVR MRAIGKLEII PASLSCRVE IIATMKKNDE QRCLNPESKT IKNLMKAFSQ KRSKRAP
Tag:	Tag Free
Predicted MW:	8.7 kDa
Concentration:	lot specific
Purity:	>95% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	Lyophilized from a 0.2 μM filtered solution of 20mM phosphate buffer, 100mM NaCl, pH 7.2
Bioactivity:	Assay #1: Determined by its ability to chemoattract IL-2 activated T cells using a concentration range of 0.1-10.0 ng/ml. Assay #2: Determined by its ability to chemoattract CXCR3 transfected/HEK293 cells using a concentration range of 100-500 ng/ml.
Endotoxin:	Endotoxin level is < 0.1 ng/μg of protein (< 1 EU/μg)
Storage:	Store at -80°C.
Stability:	Stable for at least 6 months from date of receipt under proper storage and handling conditions.
RefSeq:	NP_067249
Locus ID:	15945
UniProt ID:	P17515 , Q548V9
RefSeq Size:	1120
Cytogenetics:	5 46.57 cM
RefSeq ORF:	297
Synonyms:	C7; CRG-2; gIP-10; Ifi10; INP10; IP-10; IP10; mob-1; Scyb10



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Summary:

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 (By similarity) (PubMed:28623423). Plays thereby an important role during viral infections by stimulating the activation and migration of immune cells to the infected sites (PubMed:18624292, PubMed:19017990, PubMed:28468883). 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 (By similarity). Activation of the CXCL10/CXCR3 axis plays also 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 (PubMed:15456824).[UniProtKB/Swiss-Prot Function]

Product images: