

Recombinant Mouse Chemokine (C-X-C motif) Ligand 3

Cat. No. Cxcl3-373M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant humanCxcl3 is a single, non-glycosylated polypeptide chain containing 69 aminoacids.
Species	Mouse
Source	E.coli
Description	Cxcl3 is also known as MIP2 β (macrophage inflammatoryprotein 2 beta), or DCIP1 (dendritic cell inflammatory protein1) in mouse,CINC2 (cytokineinduced neutrophil attractant 2) in rat, and GRO γ (growthregulated oncogene gamma) in humans. It is an 8 kDa proinflammatory member ofthe CXC subfamily of heparinbinding chemokines, also called alpha chemokines.Mature mouse Cxcl3 shares 88% and 57% amino acid (aa)sequence identity with rat and human Cxcl3respectively.
Form	Lyophilized from a0.2 μ m filtered concentrated solution in 1xPBS, pH 7.4.
Molecular Weight	7.7 kDa, a single,non-glycosylated polypeptide chain containing 69 amino acids.
Purity	>97% by SDS-PAGEand HPLC analyses.
Endotoxin Level	Less than 1EU/g ofrMuDCIP-1/CXCL3 as determined by LAL method.
Biological Activity	Fully biologicallyactive when compared to standard. Determined by its ability to chemoattract293 transfected CXCR2 cells using a concentration range of 10-100 ng/ml.

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Sequence	SELRCQCLNTLPRVDFETIQ SLTVTPPGPH CTQTEVIATL KDGQEVCLNP QGPRLQIIK KILKSGKSS
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml. Stock solutions should be apportioned into working aliquots and stored at ≤-20°C. Further dilutions should be made in appropriate buffered solutions.
Storage	This lyophilized preparation is stable for several weeks at 2-8°C, but should be kept at -20°C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -80°C. Avoid repeated freeze/thaw cycles.
Official Symbol	Cxcl3

GENE INFORMATION

Gene Name	Cxcl3 chemokine (C-X-C motif) ligand 3 [<i>Mus musculus</i>]
Synonyms	Cxcl3; chemokine (C-X-C motif) ligand 3; Dcip1; Gm1960; C-X-C motif chemokine 3; dendritic cell inflammatory protein 1
Gene ID	330122
mRNA Refseq	NM_203320
Protein Refseq	NP_976065
UniProt ID	Q6W5C0

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Chromosome Location	5 E1; 5
Pathway	Chemokine receptors bind chemokines; Class A/1 (Rhodopsin-like receptors); Cytokines and Inflammatory Response (BioCarta); G alpha (i) signalling events; GPCR downstream signaling; GPCR ligand binding; Peptide ligand-binding receptors; Senescence and Autophagy; Signal Transduction; Signaling by GPCR
Function	chemokine activity; cytokine activity; protein binding

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