Active Recombinant Rat Cxcl10 Protein (77 aa)

Cat. No. Cxcl10-175C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant rat IP-10/CRG-2/CXCL10 produced in HEK 293 cells is a polypeptide chain containing 77 amino acids. A fully biologically active molecule, rr IP-10/CRG-2/CXCL10 has a molecular mass of 8.7 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.
Species	Rat
Source	HEK293
ProteinLength	77
Description	C-X-C motif chemokine 10 (CXCL10) also known as interferon gamma-induced protein 10 (IP-10) or small-inducible cytokine B10, is originally identified as an IFN-γ-inducible gene in monocytes, fibroblasts and endothelial cells. It has since been shown that IP-10 mRNA is also induced by LPS, IL-1β, TNF-α, IL-12 and viruses. Additional cell types that have been shown to express IP-10 include activated T-lymphocytes, splenocytes, keratinocytes, osteoblasts, astrocytes, and smooth muscle cells. IP-10 is also expressed in psoriatic and lepromatous lesions of the skin.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	The EC50 value of rat IP-10/CRG-2/CXCL10 on Ca^2+ mobilization assay in CHO-K1/Gα15/rCXCR3 cells (human Gα15 and rat CXCR3 stably expressed in CHO-K1 cells) is less than 300 ng/mL.

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Molecular Mass	8.7 kDa, observed by reducing SDS-PAGE.
AA Sequence	IPLARTVRCTCIDFHEQPLRPRAIGKLEIIPASLSCPHVEIIATMKKNNEKRCLNPESEAIKSLLKAVSQRRSKRAP
Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 98% as analyzed by SDS-PAGE.
Storage	Lyophilized recombinant Rat IP-10/CRG-2/CXCL10 remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, Rat IP-10/CRG-2/CXCL10 should be stable up to 1 week at 4 centigrade or up to 3 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH2O or PBS at 100 μg/mL.

GENE INFORMATION

Gene Name	Cxcl10 chemokine (C-X-C motif) ligand 10 [Rattus norvegicus]
Official Symbol	Cxcl10
Synonyms	CXCL10; chemokine (C-X-C motif) ligand 10; C-X-C motif chemokine 10; gamma-IP10; protein Mob-1; small-inducible cytokine B10; interferon-inducible protein 10; interferon-inducible cytokine IP-10; 10 kDa interferon gamma-induced protein; small inducible cytokine B subfamily (Cys-X-Cys) member 10; small inducible cytokine B subfamily (Cys-X-Cys), member 10; IP-10; Scyb10;
Gene ID	245920

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mRNA Refseq	NM_139089
Protein Refseq	NP_620789
UniProt ID	Q6GTC7

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