

CXCL10

Recombinant Rat γ -Interferon Inducible Protein 10

Catalog No.	CS283A CS283B CS283C	Quantity:	5 μ g 25 μ g 1 mg
Alternate Names:	IP-10, Scyb10, Chemokine (C-X-C motif) ligand 10, C-X-C motif chemokine 10, Member 10, Small-inducible cytokine B10		
Description:	γ -Interferon Inducible Protein 10 (IP-10) was 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-1 β , 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 skin. The mouse homologue of human IP-10, Crg -2, has been cloned and shown to share approximately 67% amino acid sequence identity with human IP-10.		
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.		
Gene ID:	245920		
Source:	<i>E. coli</i>		
Molecular Weight:	Approximately 8.6 kDa, a single non-glycosylated polypeptide chain containing 77 amino acids.		
Formulation:	Lyophilized from a 0.2 μ m filtered concentrated solution in PBS, pH 7.4.		
Purity:	>95% by SDS-PAGE and HPLC analyses.		
Endotoxin Level:	Less than 1EU/ μ g of rRtIP-10/CXCL10 as determined by LAL method		
Biological Activity:	Fully biologically active when compared to standard. The ED ₅₀ determined by a chemotaxis bioassay using human CXCR3 transfected BaF3 mouse proB cells is less than 50 ng/ml, corresponding to a specific activity of >2 \times 10 ⁴ IU/mg.		
Amino Acid Sequence:	IPLARTVRCT CIDFHEQPLR PRAIGKLEII PASLSCPHVE IATMKKNNE KRCLNPESEA IKSLLKAVSQ RRSKRAP		
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 \leq -20°C. Further dilutions should be made in appropriate buffered solutions.		
Storage & Stability:	This lyophilized preparation is stable at 2-4°C, but should be kept desiccated at -20°C for long term storage. Upon reconstitution, the preparation is stable for up to one week at 2-4°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -80°C. Avoid repeated freeze/thaw cycles.		

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