

Recombinant Rat CXCL10/IP-10

Catalog # FL038

Product Specifications

Appearance	Sterile filtered White lyophilized (freeze-dried) powder.
Purity	> 96% by SDS-PAGE or HPLC.
Endotoxin	< 0.01 EU/μg of rRtIP-10/CXCL10 protein as determined by LAL method.
Expression System	Expressed in E. coli.
Species	Rat
Tag	Tag free.
Activity	Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using human CXCR3 transfected HEK293 cells is in a concentration range of 10-50 ng/ml.
Formulation	Lyophilized from a 0.2 μm filtered concentrated solution in 20 mM PB, with 150 mM NaCl, pH 7.4.
Reconstitution	Before use this product, please read the direction below carefully. This vial must be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in a 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.
Accession #	P48973 Ile22-Pro98
Amino acid sequence	IPLARTVVRTCTIDFHEQPLRPRAIGKLEIIPASLSCPHVEIATMKKNNEKRCLNPESAEIKSLLKAVSQRRSKRAP
Molecular weight	Approximately 8.7 kDa, a single non-glycosylated polypeptide chain containing 77 amino acids.
Synonyms	Gamma-IP10, Small-inducible Cytokine BI0, Protein Mob-1
Stability & Storage	Shipped on wet ice. For long term storage, the product should be stored ≤ -20°C. Please avoid repeated freeze-thaw cycles after reconstitution. 36 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.
Precautions	Recombinant Rat CXCL10/IP-10 is for research use only and not for use in diagnostic or therapeutic procedures.

Background

CXCL10 also known as IP-10 is belonging to the CXC chemokine family. It is encoded by the CXCL10 gene, and in rat it is also named the Mob-1 gene. This gene was identified on the basis of differential expression in rat embryo fibroblasts. CXCL10 elicits its effects by binding to the cell surface chemokine receptor CXCR3. CXCL10 has been shown to be a chemoattractant for activated T-lymphocytes and monocytes/macrophages. It also has other roles, such as promotion of T cell adhesion to endothelial cells, and inhibition of bone marrow colony formation and angiogenesis. Rat CXCL10 shares approximately 68% amino acid sequence identity with human CXCL10. Recombinant Rat IP-10/CXCL10 is an 8.7kDa protein containing 77 amino acid residues.

