

Recombinant Rat gamma-Interferon Inducible Protein 10/CXCL10

(Rat IP-10/CXCL10)

Product Information

Product Name	Cat#	Size
Recombinant Rat gamma-Interferon Inducible Protein 10/CXCL10 (Rat IP-10/CXCL10)	90940ES08	5 µg
	90940ES60	100 µg
	90940ES76	500 µg

Product Description

C-X-C motif chemokine 10 (CXCL10) also known as interferon γ -induced protein 10kDa (IP-10) or small-inducible cytokine B10 is a cytokine belonging to the CXC chemokine family. The rhesus macaque IP-10 shares 69 %, 95 %, 74 % a.a. sequence identity with human, mouse, rat IP-10. This chemokine elicits its effects by binding to the cell surface chemokine receptor CXCR3. CXCL10 has been shown to be a chemoattractant for activated T-lymphocytes. CXCL10 has been reported to be a potent inhibitor of angiogenesis and to display a potent thymus-dependent antitumor effect. CXCL10 is also recognized as a biomarker that predicts severity of various diseases.

Product Properties

Synonyms	Gamma-IP10, Small-inducible Cytokine B10, Protein Mob-1
Accession	P48973
GeneID	245920
Source	E.coli-derived rat IP-10/CXCL10 protein, Ile22-Pro98.
Molecular Weight	Approximately 8.7 kDa.
AA Sequence	IPLARTVRCT CIDFHEQPLR PRAIGKLEII PASLSCPHE IATMCKNNE KRCLNPESEA IKSLLKAVSQ RRSKRAP
Tag	None
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	>95% by SDS-PAGE and HPLC analyses.
Biological Activity	The biological activity determined by a chemotaxis bioassay using human CXCR3 transfected HEK293 cells is in a concentration range of 10-50 ng/ml. Fully biologically active when compared to standard.
Endotoxin	< 1.0 EU per 1µg of the protein by the LAL method.
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4. We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom.
Reconstitution	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 $\leq -20^{\circ}\text{C}$. Further dilutions should be made in appropriate buffered solutions.

Shipping and Storage

The products are shipped with ice pack and can be stored at -20°C to -80°C for 1 year.

Recommend to aliquot the protein into smaller quantities when first used and avoid repeated freeze-thaw cycles.

Cautions

1. Avoid repeated freeze-thaw cycles.
2. For your safety and health, please wear lab coats and disposable gloves for operation.
3. For research use only!