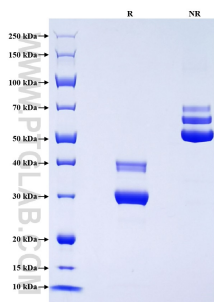


# Recombinant Rat CXCL10/IP-10 protein (mFc Tag)

Catalog Number: Eg3207

Basic Information	Species: Rat	Purity: >90 %, SDS-PAGE	Tag: mFc Tag
Technical Specifications	<p><b>Purity:</b> &gt;90 %, SDS-PAGE</p> <p><b>Endotoxin Level:</b> &lt;0.1 EU/ µg protein, LAL method</p> <p><b>Source:</b> HEK293-derived Rat CXCL10 protein Ile22-Pro98 (Accession# P48973) with a mouse IgG Fc tag at the C-terminus.</p> <p><b>GeneID:</b> 245920</p> <p><b>Accession:</b> P48973</p> <p><b>Predicted Molecular Mass:</b> 35.3 kDa</p> <p><b>SDS-PAGE:</b> 30 kDa and 38-40kDa, reducing (R) conditions</p> <p><b>Formulation:</b> Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.</p>		
Biological Activity	Not tested		
Storage and Shipping	<p><b>Storage:</b> It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"><li>• Until expiry date, -20°C to -80°C as lyophilized proteins.</li><li>• 3 months, -20°C to -80°C under sterile conditions after reconstitution.</li></ul> <p><b>Shipping:</b> The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.</p>		
Reconstitution	Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.		
Background	<p>CXCL10, known as IP-10 (Interferon-gamma inducible Protein 10 kDa), belongs to the ELR-CXC subfamily of chemokines. CXCL10 binds to the CXCR3 receptor and triggers chemotaxis, cell growth as well as apoptosis. CXCL10 also modulates immune responses by recruiting inflammatory cells to the sites of inflammation. CXCL10 can be secreted by various types of cells, including immune cells such as T lymphocytes, neutrophils, eosinophils and monocytes. It can also be secreted by stromal cells, including thyroid cells, splenocytes, endothelial cells, fibroblasts, and keratinocytes. Interestingly, CXCL10 is not only secreted by macrophages but also activates and attracts macrophages into tissues, and thus CXCL10 substantially controls the inflammatory response as well as the tissue and matrix homeostasis.</p>		
References	<ol style="list-style-type: none"><li>1.Elemam NM, et al. (2022) Viruses. 14(11):2445.</li><li>2.Qiao X, et al. (2022) Int J Med Sci. 19(14):2058-2070.</li><li>3.Hirani DV, et al. (2023) Inflamm Regen. 43(1):52.</li></ol>		
Synonyms	10 kDa interferon gamma-induced protein, C-X-C motif chemokine 10, Cxcl10, Gamma-IP10, Inp10		

## Selected Validation Data



Purity of Recombinant Rat CXCL10 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

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