

## Recombinant Rat Cytokine-induced Neutrophil Chemoattractant-2 alpha/CXCL3 (Rat CINC-2 $\alpha$ /CXCL3)

### Product Information

Product Name	Cat#	Size
Recombinant Rat Cytokine-induced Neutrophil Chemoattractant-2 alpha/CXCL3 (Rat CINC-2 $\alpha$ /CXCL3)	90936ES10	10 $\mu$ g
	90936ES60	100 $\mu$ g
	90936ES76	500 $\mu$ g

### Product Description

CXCL3, also known as DCIP1 in mouse, CINC2 in rat, and GRO $\gamma$  in humans, is belonging to the CXC chemokine family. The amino acid sequence of mouse CXCL3 is 57 % identical to human CXCL3. In rat, CINC-2 has two isoforms, known as CXCL3 $\alpha$ /CINC-2 $\alpha$  and CXCL3 $\beta$ /CINC-2 $\beta$ . CXCL3 plays a role in inflammation and exert its effects on endothelial cells in an autocrine fashion. Similar to other alpha chemokines, the three GRO proteins are potent neutrophil attractants and activators. In addition, these chemokines are also active toward basophils. CXCL3 was reportedly associated with the invasion and metastasis of various malignancies. As a member of the chemokine family, CXCL3 was previously known to participate in many pathophysiological events. CXCL3 was found to be upregulated in aggressive cancer cells.

### Product Properties

<b>Synonyms</b>	chemokine (C-X-C motif) ligand 3, CINC-2alpha, MIP2-alpha
<b>Accession</b>	Q10746
<b>GeneID</b>	171551
<b>Source</b>	E.coli-derived rat CINC-2 $\alpha$ /CXCL3 protein, Arg33-Ser101.
<b>Molecular Weight</b>	Approximately 7.8 kDa.
<b>AA Sequence</b>	RELRCQCLKT LPRVDFENIQ SLTVTPPGPH CTQTEVIATL KDGQEVCLNP QAPRLQKIIQ KLLKSDKSS
<b>Tag</b>	None
<b>Physical Appearance</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Purity</b>	>96% by SDS-PAGE and HPLC analyses.
<b>Biological Activity</b>	The biological activity determined by a chemotaxis bioassay using human CXCR2 transfected mouse BaF3 cells is in a concentration range of 5-50 ng/mL. Fully biologically active when compared to standard.
<b>Endotoxin</b>	< 1.0 EU per 1 $\mu$ g of the protein by the LAL method.
<b>Formulation</b>	Lyophilized from a 0.2 $\mu$ m filtered concentrated solution in 20 mM PB, pH 7.4, 50 mM NaCl. We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom.
<b>Reconstitution</b>	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 $^{\circ}$ 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 $^{\circ}$ C to -80 $^{\circ}$ 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!