

## Recombinant Human Monokine Induced by Interferon-gamma/CXCL9 (Human MIG/CXCL9)

### Product Information

Product Name	Cat#	Size
Recombinant Human Monokine Induced by Interferon-gamma/CXCL9 (Human MIG/CXCL9)	90911ES08	5 µg
	90911ES60	100 µg
	90911ES76	500 µg

### Product Description

CXCL9, a member of the alpha subfamily of chemokines that lack the ELR domain, was initially identified as a lymphokine-activated gene in mouse macrophages. Human CXCL9 was subsequently cloned using mouse MIG cDNA as a probe. The human CXCL9 cDNA encodes a 125 amino acid residue precursor protein with a 22 amino acid residue signal peptide that is cleaved to yield a 103 amino acid residue mature protein. The carboxy-terminal residues of CXCL9 are prone to proteolytic cleavage resulting in size heterogeneity of natural and recombinant CXCL9. The CXCL9 gene is induced in macrophages and in primary glial cells of the central nervous system specifically in response to IFN-gamma. CXCL9 has been shown to be a chemoattractant for activated T-lymphocytes and TIL. And it elicits their chemotactic functions by interacting with the chemokine receptor CXCR3.

### Product Properties

<b>Synonyms</b>	Monokine-like Protein
<b>Accession</b>	Q07325
<b>GeneID</b>	4283
<b>Source</b>	E.coli-derived Human MIG/CXCL9, Thr23-Thr125.
<b>Molecular Weight</b>	Approximately 11.7 kDa.
<b>AA Sequence</b>	TPVVRKGRCS CISTNQGTH LQSLKDLKQF APSPSCEKIE IATLKNQVQ TCLNPDSADV KELIKKWEKQ VSQKKKQKNG KKHQKKKVLK VRKSQRSRQK KTT
<b>Tag</b>	None
<b>Physical Appearance</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Purity</b>	> 97% by SDS-PAGE and HPLC analyses.
<b>Biological Activity</b>	The biological activity determined by a chemotaxis bioassay using human peripheral blood T-lymphocytes is in a concentration range of 10-100 ng/mL. Fully biologically active when compared to standard.
<b>Endotoxin</b>	< 1.0 EU per 1µg of the protein by the LAL method.
<b>Formulation</b>	Lyophilized from a 0.2 µm 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 ≤ -20°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.