



# Recombinant Protein Technical Manual

## Recombinant Mouse CXCL9 Protein

RPES0301

### Product Data:

**Product SKU:** RPES0301

**Size:** 10µg

**Species:** Mouse

**Expression host:** E. coli

**Uniprot:** P18340

### Protein Information:

**Molecular Mass:** 12.3 kDa

**AP Molecular Mass:** 14 kDa

**Tag:**

**Bio-activity:**

**Purity:** > 95 % as determined by SDS-PAGE

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** C-X-C motif chemokine 9;Cxcl9;Gamma-interferon-induced monokine;Monokine induced by interferon-gamma;MIG;Small-inducible cytokine B9;Scyb9

## Immunogen Information:

**Sequence:** Thr22-Thr126?

## Background:

Chemokine (C-X-C motif) ligand 9 (CXCL9, MIG), is a small cytokine belonging to the CXC chemokine family. CXCL9 functions as one of the three ligands of chemokine receptor CXCR3 which is a G protein-coupled receptor found predominantly on T cells. It together with CXCL10 and CXCL11, may activate CXCR3 by binding to it. CXCL9 serves as a cytokine that affects the growth, movement, or activation state of cells that participate in immune and inflammatory response. It has been observed that tumour endothelial cells secrete high levels of CXCL9 in all, and CXCL10 in most melanoma metastases. It plays an important role in CD4+ T lymphocyte recruitment and development of CAV, MOA-2+ macrophages are the predominant recipient-derived source of CXCL9, and recipient CD4 lymphocytes are necessary for sustained CXCL9 production and CAV development in this model.