

CXCL9 Protein, Mouse, Recombinant (His)

General Information

Synonyms:	Protein m119;C-X-C motif chemokine 9;γ-interferon-induced monokine;Monokine induced by interferon-γ;Monokine induced by interferon-gamma;MuMIG;Small-inducible cytokine B9;Scyb9;Cxcl9;Gamma-interferon-induced monokine;Mig
Protein Construction:	Thr22-Thr126
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	P18340
Molecular Weight:	18-25 KDa (reducing condition)
AA Sequence:	Thr22-Thr126

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein 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.

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Tel: 781-999-4286 E_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481