

Rev03
Update: Dec,14,2021

DATASHEET

MIG/CXCL9, Mouse

Cat. No.: Z03343

Product Introduction

Species	Mouse
Protein Construction	Expressed with an N-terminal Met. CXCL9 (Thr22-Thr126) Accession # P18340
Purity	> 95% as analyzed by SDS-PAGE
Endotoxin Level	< 0.2 EU/μg of protein by gel clotting method
Biological Activity	The EC ₅₀ value of Mouse MIG/CXCL9 on Ca ²⁺ mobilization assay in CHO-K1/Gα15/mCXCR3 cells (human Gα15 and mouse CXCR3 stably expressed in CHO-K1 cells) is less than 2.0 μg/ml.
Expression System	E. coli
Apparent Molecular Weight	~12.3 kDa, on SDS-PAGE under reducing conditions.
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH ₂ O or PBS up to 100 μg/ml.
Storage & Stability	Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

Background

Target Background : Chemokine (C-X-C motif) ligand 9 (CXCL9), also known as monokine induced by interferon gamma (MIG), is a small cytokine belonging to the CXC chemokine family. The CXCL9 gene is induced in macrophages and in primary glial cells of the central nervous system in response to IFN γ . CXCL9 has been shown to be a chemoattractant for activated Th1 lymphocytes and tumor-infiltrating leukocytes (TILs) but not for neutrophils or monocytes. CXCL9 is also involved in other cellular activities including inhibition of tumor growth, angiogenesis, and inhibition of colony formation of hematopoietic progenitors. CXCL9 is closely related to two other CXC chemokines, CXCL10 and CXCL11. CXCL9, CXCL10 and CXCL11 all elicit their chemotactic functions by interacting with the chemokine receptor CXCR3.

Synonyms : CXCL-9; CMK; Humig; MIG; SCYB9; crg-10; C-X-C motif chemokine ligand 9; Small inducible cytokine B9; Gamma interferon-induced monokine; monokine induced by gamma-interferon

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