

Overview

Synonyms	Small inducible cytokine B9, CXCL9, Gamma interferon-induced monokine, MIG, chemokine (C-X-C motif) ligand 9, CMK, Humig, SCYB9, crg-10, M119, monokine induced by gamma-interferon.
Description	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 chemo attractant 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. Recombinant Mouse MIG/CXCL9 produced in <i>E. coli</i> is a single, non-glycosylated polypeptide chain containing 106 amino acids. A fully biologically active molecule, recombinant Mouse MIG/CXCL9 has a molecular mass of 12.3 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.
Accession No	P18340
Source	<i>E. coli</i>
Biological Activity	The EC ₅₀ value of Mouse MIG/CXCL9 on Ca ²⁺ mobilization assay in CHO-K1/G \pm 15/mCXCR3 cells (human G \pm 15 and mouse CXCR3 stably expressed in CHO-K1 cells) is less than 2 μ g/ml.
Sequence	MTLVIRNARC SCISTSRGTI HYKSLKDLKQ FAPSPNCNKT EIIATLKNQD QTCLDPDSANVKKLMKEWEK KLSQKKKQKR GKKHQKNMKN RKPKTPQSR RSRKTT

Properties

Measured Molecular Weight	12.3 kDa, observed by reducing SDS-PAGE.
Purity	> 95% as analyzed by SDS-PAGE.
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 μ g/ml.
Endotoxin Level	< 0.2 EU/ μ g, determined by LAL method.
Storage	Lyophilized recombinant Mouse MIG/CXCL9 , remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, Mouse MIG/CXCL9 should be stable 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.
Note	For research use only

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