

Recombinant Murine Monokine Induced by Interferon-gamma/CXCL9

#R00414

Size: 5 µg/100 µg/500 µg

Stability & Storage

- Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
- 12 months from date of receipt, -20 to -70 °C as supplied.
 - 1 month, 2 to 8 °C under sterile conditions after reconstitution.
 - 3 months, -20 to -70 °C under sterile conditions after reconstitution.



Warning: This product is intended for scientific research only. It is not to be used for medical or diagnostic procedures in humans or animals, nor as a food, cosmetic, or household product.

Background

CXCL9 belongs to the CXC chemokine family and also known as Monokine induced by gamma interferon (MIG). It is a T-cell chemoattractant induced by IFN-γ. CXCL9 is closely related to two other CXC chemokines called CXCL10 and CXCL11, additionally they all elicit their chemotactic functions by interacting with the chemokine receptor CXCR3. It is a cytokine that affects the growth, movement, or activation state of cells that participate in immune and inflammatory response and chemotactic for activated T-cells. Recombinant murine CXCL9 contains 105 amino acids which is a single non-glycosylated polypeptide chain. Furthermore, The murine CXCL9 shares 75% and 88% a.a. sequence identity with human and rat CXCL9.

AA Sequence

TLVIRNARCSCISTSRGTIHYKSLKDLKQFAPSPNCNK
TEIATLKNQDQTCLDPDSANVKKLMKEWEKKINQKK

KQKRGKKHQKNMKNRKPKTPQSRRRSRKT

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. 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.

Product Specification

Synonyms	Gamma-interferon-induced Monokine, Small-inducible Cytokine B9
Accession	P18340
GeneID	17329
Species	Murine
Source	Escherichia coli.
Molecular Weight	Approximately 12.2 kDa, a single non-glycosylated polypeptide chain containing 105 amino acids.
Purity	> 95 % by SDS-PAGE and HPLC analyses.
Biological Activity	Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using human lymphocytes is in a

	concentration range of 0.1-1.0 ng/ml.
Physical	Sterile Filtered White lyophilized
Appearance	(freeze-dried) powder.
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in 2 × PBS, pH 7.4.
Endotoxin	Less than 1 EU/µg of rMuMIG/CXCL9 as determined by LAL method.
