

Recombinant Bovine Monokine Induced by Interferon-gamma/CXCL9

#R00467

Size: 10 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 is a T-cell chemoattractant induced by IFN-γ belonging to the CXC chemokine family and it is also known as Monokine induced by gamma interferon (MIG). CXCL9 is closely related to two other CXC chemokines called CXCL10 and CXCL11 and they all elicit their chemotactic functions by interacting with the chemokine receptor CXCR3. CXCL9 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 bovine CXCL9 contains 104 amino acids which is a single non-glycosylated polypeptide chain. The bovine CXCL9 shares 92 % and 72 % a.a. sequence identity with sheep and human CXCL9.

AA Sequence

VPAIRNGRCSCINTSQGMIHPKSLKDLKQFAPSPSCE
KTEIIATMKNGNEACLNPDLPVKELIKEWEKQVNQK

KKQRKGKKYKKTKKVPKVKRSQRPSQKKTT

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

Accession	A9QWP9
GeneID	513990
Unigene	Bt.37553.
Species	Bovine
Source	Escherichia coli.
Molecular Weight	Approximately 11.9 kDa, a single non-glycosylated polypeptide chain containing 104 amino acids. But it migrates with an apparent molecular mass of 18 kDa in SDS-PAGE.
Purity	> 96 % 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 20 mM PB, pH 7.0, 500 mM NaCl.
Endotoxin	Less than 0.1 EU/µg of rBoMIG/CXCL9 as determined by LAL method.
