

Recombinant Viral Macrophage Inflammatory Protein-2

Catalog No.	CS520A CS520B CS520C	Quantity:	10 µg 50 µg 1 mg
Description:	<p>Viral MIP-2 cDNA encodes a 94 amino acid residue precursor protein with a 23 aa residue signal peptide that is cleaved to yield a 71 aa residue mature protein. Among human chemokines, ViMIP-2 is most closely related to MIP-1alpha, sharing approximately 41% amino acid sequence identity. At the amino acid sequence level, ViMIP-1 and ViMIP-2 also share 48% identity. ViMIP-1 and ViMIP-2 are more closely related to one another phylogenetically than to other human chemokines, suggesting that they may have arisen by gene duplication within the virus rather than by two independent gene acquisitions. ViMIP-2 binds to the CCR3 chemokine receptor through which eotaxin and other beta chemokines activate eosinophils. ViMIP-2 has been shown to activate and chemoattract human eosinophils.</p> <p>Recombinant Viral Macrophage Inflammatory Protein-2 is a single, non-glycosylated polypeptide chain containing 70 amino acids.</p>		
Source:	<i>E. coli</i>		
Molecular Weight:	7.9 kDa		
Formulation:	Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM PB, pH 7.4 + 150 mM NaCl.		
Purity:	>97% by SDS-PAGE and HPLC analyses.		
Endotoxin Level:	<1 EU/µg as determined by LAL method.		
Biological Activity:	Fully biologically active when compared to standard. The specific activity is determined by the inhibitory effect on monocyte migration response to human MIP-1 alpha using a concentration range of 1.0 µg-10.0 µg/ml of viral MIP-2 will inhibit 25 ng/ml of human MIP-1 alpha.		
Amino Acid Sequence:	LGASWHRPDK CCLGYQKRPL PQVLLSSWYP TSQLCSKPGV IFLTKRGRQV CADKSKDWVK KLMQQLPVTA		
Reconstitution:	Centrifuge vial prior to opening. Add sterile distilled water or aqueous buffer to a concentration of 0.1-1.0 mg/ml. Further dilutions should be made in appropriate buffered solutions.		
Storage & Stability:	The lyophilized protein is stable at 2-8°C. Upon receipt, store desiccated at -20°C. After reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -80°C. For long term storage of reconstituted protein, it is recommended that a carrier protein such as 0.1% BSA or HSA be added. This depends on the particular application. Avoid repeated freeze/thaw cycles.		

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