
Product Data Sheet

Product Name: MIP2 Viral
 Cat. No.: GP21115
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	MIP-2 Viral; Viral MIP-2; MIP2 Viral; Viral MIP2; Viral Macrophage inflammatory Protein-2.		
Amino Acid Sequence	LGASWHRPDK CCLGYQKRPL PQVLLSSWYP TSQLCSKPGV IFLTRGRQVCADKSKDWVK KLMQQLPVTA.		
Solubility	It is recommended to reconstitute the lyophilized CXCL2 Viral in sterile 18MΩ-cm H ₂ O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized from 1mg/ml solution containing 20mM Phospahte Buffer, pH 7.4 % 0.15M NaCl.		

Introduction

Viral MIP-2 is closely related to MIP-1 α , show amino acid sequence similarity of about 41%. At the amino acid sequence level, Viral MIP-1 and Viral MIP-2 share 48% similarity. Viral MIP-1 and Viral MIP-2 are more closely linked to one another phylogenetically than to other human chemokines, signifying that they have gene duplication within the virus rather than by two independent gene acquisitions. Viral MIP-2 binds to the CCR3 chemokine receptor through which eotaxin and other α ₇ chemokines activate eosinophils. Viral MIP-2 activates and chemoattract human eosinophils.

Biological Activity

Determined by the inhibitory effect on monocyte migration response to human MIP1A using a concentration range of 1?g-10μg/ml of viral MIP2 which will inhibit 25ng/ml of human MIP1A.

Stability

Caution: Product has not been fully validated for medical applications. For research use only.

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Lyophilized MIP-2 Viral protein although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution CXCL2 should be stored at 4°C between 2-7 days and for future use below -18°C . For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Background

MIP-2 Viral Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 70 amino acids and having a molecular mass of 7.9 kDa. The MIP-2 is purified by proprietary chromatographic techniques.

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