

# Growth Factor Data Sheet

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Viral MIP2 is a viral homolog of the human chemokines. It is encoded by the *K4* gene in human herpesvirus-8. Viral MIP2 binds with high affinity to most chemokine receptors as an antagonist. It binds to CCR3 and CCR8 as an agonist. VMIP2 is chemotactic for Th2 cells, eosinophils, and monocytes. It plays a role in promoting Kaposi's sarcoma, possibly through chemotaxis of monocytes or by angiogenesis. VMIP2 also diminishes host immunity by upregulating IL10 and can block infection of type 1 HIV strains by binding to host chemokine receptors.

<b>Catalog Number</b>	<b>2910-02</b>
<b>Product Name</b>	<b>MIP2, Virus</b> Recombinant Macrophage Inflammatory Protein 2 (vMIP2, vMIP-II) Viral Chemokine (C-C motif) Ligand 2 (vCCL2, VCCL-2) Interleukin 8-like CC Chemokine K4
<b>Source</b>	<i>Escherichia coli</i>
<b>MW</b>	~8.0 kDa (70 amino acids)
<b>Sequence</b>	LGASWHRPDK CCLGYQKRPL PQVLLSSWYP TSQLCSKPGV IFLTKRGRQV CADKSKDWVK KLMQQLPVTA
<b>Accession Number</b>	<a href="#">Q98157</a>
<b>Purity</b>	>97% by SDS-PAGE and HPLC analyses
<b>Biological Activity</b>	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 1-10 µg/ml of viral MIP-2 will inhibit 25 ng/ml of human MIP-1 alpha.
<b>Formulation</b>	Sterile filtered white lyophilized powder. Purified and tested for use in cell culture.
<b>Storage/Handling</b>	This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage. The reconstituted sample can be apportioned into working aliquots and stored at -80 °C for up to 6 months. Avoid repeated freeze/thaw cycles.
<b>Reconstitution</b>	The sample should be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in a siliconized tube using PBS that contains a 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Reconstituted solutions are stable for up to one week at 2-8°C. Stock solutions should be aliquoted and stored at -80°C. Further dilutions should be made in appropriate buffered solutions containing BSA or serum.