

Recombinant Viral Macrophage Inflammatory Protein-2 (Viral MIP-2)

Product Information

Product Name	Cat#	Size
	92541ES10	10 µg
Recombinant Viral Macrophage Inflammatory Protein-2 (Viral MIP-2)	92541ES60	100 µg
	92541ES76	500 µg

Product Description

Viral MIP-2 is one of the three chemokine-like proteins expressed by the human herpesvirus 8 (Kaposi's sarcoma-associated herpesvirus, KSHV) and the other is ViMIP-1 and ViMIP-3. Viral MIP-II cDNA encodes a 94 amino acid (aa) residue precursor protein with a 23 aa residue signal peptide that is cleaved to yield a 71 aa residue mature protein. It shares 41 % and 48 % with human MIP-1 α and ViMIP-1, respectively. ViMIP-2 has been shown to have antagonist activity towards a wide range of chemokine receptors and has functions of blocking infection by several different human immunodeficiency virus type 1 (HIV-1) strains. It may form part of the response to host defenses contributing to virus-induced neoplasia and may have relevance to KSHV and HIV-1 interactions. Additionally, ViMIP-2 has been shown to activate and chemoattract human eosinophils.

Product Properties

Synonyms	Viral Macrophage Inflammatory Protein II, vMIP-1B, MIP-II, vMIP-2
Accession	Q98157
GeneID	4961514
Source	E.coli-derived viral MIP-2 protein, Leu23-Ala93.
Molecular Weight	Approximately 8.0 kDa.
AA Sequence	LGASWHRPDK CCLGYQKRPL PQVLLSSWYP TSQLCSKPGV IFLTKRGRQV CADKSKDWVK KLMQQLPVTA
Tag	None
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	>97% by SDS-PAGE and HPLC analyses.
Biological Activity	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 25ng/mL of human MIP-1 alpha. Fully biologically active when compared to standard.
Endotoxin	< 1.0 EU per 1µg of the protein by the LAL method.
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM PB, pH 7.4, 150mM NaCl. We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom.
Reconstitution	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 $\leq -20^{\circ}\text{C}$. Further dilutions should be made in appropriate buffered solutions.

Shipping and Storage

The products are shipped with ice pack and can be stored at -20°C to -80°C for 1 year.

Recommend to aliquot the protein into smaller quantities when first used and avoid repeated freeze-thaw cycles.

Cautions

1. Avoid repeated freeze-thaw cycles.
2. For your safety and health, please wear lab coats and disposable gloves for operation.
3. For research use only!