

Product datasheet

Recombinant herpes simplex virus viral MIP2 protein ab201382

Description

Product name	Recombinant herpes simplex virus viral MIP2 protein	
Biological activity	Fully biologically active when compared to standard. Determined by the inhibitory effect on monocyte migration response to Human MIP-1 alpha using a concentration range of 1.0µg-10.0µg/ml of viral MIP2 will inhibit 25ng/ml of Human MIP-1 alpha.	
Purity	> 97 % SDS-PAGE. > 97 % by HPLC.	
Endotoxin level	< 1.000 Eu/µg	
Expression system	Escherichia coli	
Accession	Q98157	
Protein length	Full length protein	
Animal free	No	
Nature	Recombinant	
Species	Herpes simplex virus	
Sequence	LGASWHRPDK CCLGYQKRPL PQVLLSSWYP TSQLCSKPGV IFLTKRGRQV CADKSKDWVK KLMQQLPVTA	
Predicted molecular weight	8 kDa	
Amino acids	24 to 93	
Additional sequence information	Human herpesvirus 8. This product is for the mature full length protein. The signal peptide is not included.	

Specifications

Our [Abpromise guarantee](#) covers the use of **ab201382** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Functional Studies HPLC SDS-PAGE
Form	Lyophilized

Preparation and Storage

Stability and Storage

Shipped at 4°C. Store at -20°C long term. Avoid freeze / thaw cycle.

pH: 7.40

Constituents: 0.87% Sodium chloride, 99% Phosphate Buffer

Briefly centrifuge 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.

This product is an active protein and may elicit a biological response in vivo, handle with caution.

Reconstitution

Briefly centrifuge 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.

General Info

Relevance

vMIP2 is a chemokine analog encoded by the human herpesvirus (HHV8) and is a potent in vitro antagonist of many chemokine receptors. In vivo vMIP2 has been shown to be a potent inhibitor of type 1 T-cell-mediated inflammation. Three chemokine-like proteins, vMIP-I, vMIP-II and vMIP-III are encoded within the HHV8 genome. Among human chemokines, vMIP2 is most closely related to MIP-1a, sharing approximately 41% amino acid sequence identity. The CC chemokine receptor (CCR) 8 belongs to the seven transmembrane-spanning receptor families and functionally responds to the eukaryotic CC chemokines I-309, MIP 1b and vMIP1 and vMIP2. Both vMIP I and vMIP2 partially block HIV infection of peripheral blood mononuclear cells. vMIP1 and vMIP2 are also highly angiogenic. Chemokines play a profound role in leukocyte trafficking and the development of adaptive immune responses. Perhaps due to their importance in host defense, viruses have adopted many of the hallmarks displayed by chemokines. One therapeutic strategy to prevent accumulation of pro-inflammatory immune cells is the use of specific chemokine receptor antagonists. An interesting and promising candidate in this context is the viral antagonist vMIP2 as this molecule acts on a broad spectrum of chemokine receptors.

Cellular localization

Secreted

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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