abcam

Product datasheet

Recombinant herpes simplex virus viral MIP2 protein ab50234

Description

Product name	Recombinant herpes simplex virus viral MIP2 protein
Biological activity	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.
Purity	> 95 % SDS-PAGE. ab50234 purity is greater than 98% by SDS-PAGE and HPLC analyses.
Expression system	Escherichia coli
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Herpes simplex virus
Sequence	LGASWHRPDK CCLGYQKRPL PQVLLSSWYP TSQLCSKPGV IFLTKRGRQV CADKSKDWVK KLMQQLPVTA

Specifications

Our Abpromise guarantee covers the use of **ab50234** in the following tested applications.

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

Applications	Inhibition Assay SDS-PAGE
Form	Lyophilized

Preparation and Storage

Stability and Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles. This product is an active protein and may elicit a biological response in vivo, handle with caution.
Reconstitution	Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. This solution can then be diluted into other aqueous buffers and stored at 4oC for 1 week or -20oC for future use.

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 vMIPI and vMIP2. Both vMIP I and vMIP2 partially block HIV infection of peripheral blood mononuclear cells. vMIPI 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

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