

Vaccinia Virus B18R/B19R Recombinant Protein | B18R recombinant protein

Vaccinia Virus B18R/B19R Protein (His Tag)

CATALOG # AAA258066	HOST Baculovirus-Insect Cells
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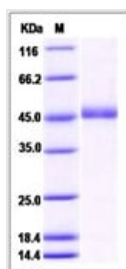
PRODUCT SYNONYMS

Vaccinia Virus B18R/B19R; Vaccinia Virus B18R/B19R Protein (His Tag); bone marrow stromal cell antigen 2; B18R recombinant protein

PRODUCT SPECIFICATIONS

Host	Baculovirus-Insect Cells
Purity/Purification	>90% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile 20mM Tris, 300mM NaCl, 10% Glycerol, pH8.0, 5% Trehalose, 5% Mannitol, 0.01% Tween-80.
Sequence	Met1-Glu35 1
Source	Vaccinia Virus
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	His 20
Tag	His Tag
Protein Construction	A DNA sequence encoding the B18R (P25213)(Met1-Glu351) was expressed with a C-terminal polyhistidine tag.
Reconstitution	It is recommended that sterile water (400ul) be added to the vial to prepare a stock solution of 0.25mg/mL. Concentration is measured by UV
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -70 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. Recommended that the protein be aliquoted into smaller quantities for optimal storage. Avoid repeated freeze-thaw cycles.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for B18R recombinant protein	Background: B18R is a type I interferon (IFN)-binding protein, which is encoded by the B18R open reading frame in the WR (Western Reserve) strain of vaccinia virus. It is also known as B19R in the Copenhagen strain of Vaccinia. B18R exists in a soluble and a membrane-bound form. As a type I IFN receptor, B18R has a broad species specificity. It has high affinity for human IFN-alpha and also binds rabbit, bovine, rat, pig, and mouse IFN-alpha and IFN-beta. It has been shown that secreted B18R binds to uninfected and infected cells. It presents at the cell surface and protects cells from the antiviral state induced by IFN-alpha and IFN-beta. Binding of soluble recombinant B18R protects cultured cells from IFN and allows vaccinia virus replication.
References	I Vancov. et al., 1998, J Gen Virol July. 79 (7): 1647-9. Colamonici OR. et al., 1995, J Biol Chem. 270 (27): 15974-8. Goebel SJ. et al., 1990, Virology 179: 247-66. Goebel SJ. et al., 2010, J Cell Biol. 190 (4): 533-9.

NCBI AND UNIPROT INFORMATION

NCBI GI #	66275997
NCBI GeneID	3707577
NCBI Accession #	YP_233082.1
NCBI GenBank Nucleotide #	NC_006998.1
UniProt Accession #	P25213; Q76ZK5; AAO89479
Molecular Weight	Molecular Mass: The secreted recombinant B18R consists of 342 amino acids and predicts a molecular mass of 39.8 KDa. The apparent molecular mass of the protein is approximately 46 KDa in SDS-PAGE under reducing conditions due to glycosylation.
NCBI Official Full Name	IFN-alpha/beta-receptor-like secreted glycoprotein
NCBI Official Symbol	B19R
NCBI Protein Information	IFN-alpha/beta-receptor-like secreted glycoprotein
UniProt Protein Name	Soluble interferon alpha/beta receptor B18
UniProt Gene Name	VACWR200
UniProt Synonym Gene Names	B18

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.