

Vaccinia Virus B18R / B19R Protein (His Tag)



Sino Biological Inc.
Biological Solution Specialist

Catalog Number: 40020-V08B

General Information

Gene Name Synonym:

CD317; TETHERIN

Protein Construction:

A DNA sequence encoding the B18R (P25213) (Met1-Glu351) was expressed with a C-terminal polyhistidine tag.

Source: Vaccinia Virus

Expression Host: Baculovirus-Insect Cells

QC Testing

Purity: > 90 % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: His 20

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.

Formulation:

Lyophilized from sterile PBS, pH 7.4.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

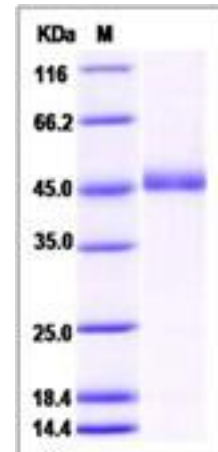
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

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-α and also binds rabbit, bovine, rat, pig, and mouse IFN-α and IFN-β. 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-α and IFN-β. Binding of soluble recombinant B18R protects cultured cells from IFN and allows vaccinia virus replication.

References

1. I Vancov. et al., 1998, J Gen Virol July. 79 (7): 1647-9.
2. Colamonici OR. et al., 1995, J Biol Chem. 270 (27): 15974-8.
3. Goebel SJ. et al., 1990, Virology 179: 247-66.

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