Recombinant Vaccinia Virus B18R / B19R Protein (His

Tag)

Catalog Number: PKSV030257



Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Synonyms Vaccinia Virus B18R;B19R

Species Vaccinia Virus

Expression Host Baculovirus-Insect Cells

Sequence Met1-Glu351

AccessionP25213Calculated Molecular Weight39.8 kDaObserved molecular weight46 kDaTagC-His

Properties

Purity > 90 % as determined by reducing SDS-PAGE.

Endotoxin $< 1.0 \text{ EU per } \mu \text{g of the protein as determined by the LAL method.}$

Storage Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to

-80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots

of reconstituted samples are stable at < -20°C for 3 months.

Shipping This product is provided as lyophilized powder which is shipped with ice packs.

Formulation Lyophilized from sterile PBS, pH 7.4.

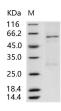
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

protectants before lyophilization.

Please refer to the specific buffer information in the printed manual.

Reconstitution Please refer to the printed manual for detailed information.

Data



> 90 % as determined by reducing SDS-PAGE.

Background

B18R is a type I interferon (IFN)-binding protein, which is encoded by the B18R open reading frame in the WR (WesternReserve)strain of vaccinia virus. Itis alsoknownasB19RintheCopenhagenstrainofVaccinia. 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.

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