



Synonym

B18R

Source

Vaccinia Virus B18R, His Tag(B1R-H52H6) is expressed from human 293 cells (HEK293). It contains AA His 20 - Glu 351 (Accession # [P25213](#)).

Predicted N-terminus: His 20

Molecular Characterization

B18R(His 20 - Glu 351)
P25213 Poly-his

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 40.3 kDa. The protein migrates as 50-65 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per μg by the LAL method.

Purity

>90% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 μm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

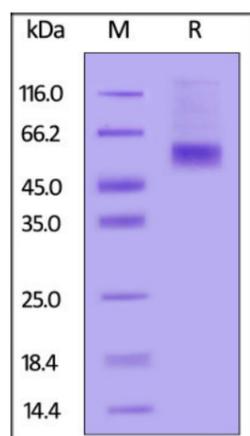
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



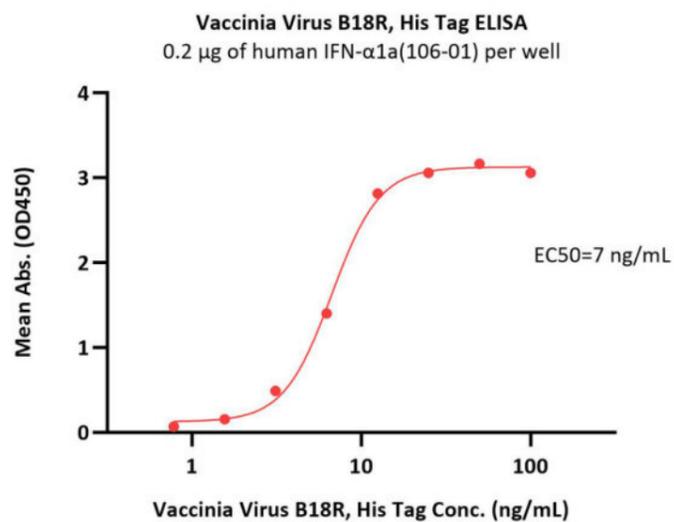
Vaccinia Virus B18R, His Tag on SDS-PAGE under reducing (R) condition.

The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

Bioactivity-ELISA

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Immobilized human IFN-α1a(106-01) at 2 µg/mL (100 µL/well) can bind Vaccinia Virus B18R, His Tag (Cat. No. B1R-H52H6) with a linear range of 3-13 ng/mL (QC tested).

Background

B18R is a type I interferon (IFN)-binding protein and it is encoded by the B18R open reading frame in the WR (Western Reserve) strain of vaccinia virus, which contains two Ig-like C2-type domains and one Ig-like V-type domain. B18R exists in a soluble and a membrane-bound form. As a type I IFN receptor, B18R counteracts the antiviral effects of host IFN-alpha/beta. Also, B18R acts as a soluble IFN-alpha receptor and thus inhibits the interaction between host IFN-alpha and its receptor.

Clinical and Translational Updates

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