



## Recombinant Protein Technical Manual

### Recombinant Vaccinia virus Soluble Interferon $\alpha/\beta$ Receptor B18 Protein (His Tag)

RPES4124

#### Product Data:

**Product SKU:** RPES4124

**Size:** 10 $\mu$ g

**Species:** Vaccinia virus

**Expression host:** Human Cells

**Uniprot:** P25213

#### Protein Information:

**Molecular Mass:** 39.2 kDa

**AP Molecular Mass:** 50-65 kDa

**Tag:** C-His

**Bio-activity:**

**Purity:** > 95% as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per  $\mu$ g as determined by the LAL method.

**Storage:** Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°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 a 0.2  $\mu$ m filtered solution of PBS, pH7.4.

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** Soluble interferon alpha/beta receptor B18; VACWR200

## Immunogen Information:

**Sequence:** His20-Glu351

## Background:

B18R, also known as B19R in the Copenhagen strain of Vaccinia, is a type I interferon (IFN)-binding protein encoded by the B18R open reading frame in the Western Reserve strain of vaccinia virus. B18R exists in two forms, soluble and membrane-bound form and also has a broad species specificity. B18R has high affinity for human IFN-alpha and also binds rabbit, bovine, rat, pig, and mouse IFN-alpha and IFN-beta. Secreted B18R binds to uninfected and infected cells. B18R presents at the cell surface and protects cells from the antiviral state. It has shown that binding of soluble recombinant B18R protects cultured cells from IFN and allows vaccinia virus replication.