**Product Description**

The B18R protein, which is encoded by the B18R open reading frame in the Western Reserve (WR) strain of vaccinia virus, is a type I interferon (IFN)-binding protein that is known to inhibit IFN antiviral response (Colamonici et al.). B18R protein has been shown to exhibit neutralizing activity to type I interferon family members (Meyers et al.) and to protect cells from the antiviral effects of interferon (Vancová et al.). It was recently shown that HIV-1–dependent induction of type I IFN activity and BAFF protein levels was abrogated by the soluble B18R protein, with no effect observed on the cell viability (Gomez et al.). B18R protein has been reported to aid in cellular reprogramming using RNA-mediated gene delivery (Warren et al.; Yoshioka N et al.).

**Product Information**

**Alternative Names:** Type I IFN inhibitor, Vaccinia virus-encoded neutralizing type I interferon receptor

**Accession Number:** D01019

**Amino Acid Sequence:**

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MTMKMMVHIY FVSLLLLFLH SYAIIDIENIE TEFFNKRMDT LPAKDSKWLN PACMFGGTMS DIAALGEPFS
AKCPPIEDSL LSHRYKDYVV KWERLEKRR RQQSNKRVKH GDLWIANYS KFSNRRYLT CT VTTKNGDCVQ
GIVRSHIRKP PSCIPKTYEL GHDKYGI DL YCGILYAKHY NNITWYKDNE NIIDDIKYQ OTGKELIPN
PELEDSDYD CAHYDVRK SLNDIVSVRCK LITVIPSQDH RFLPLDLPKI NVTIGEPANI TCTAVSTSLL
IDDVLEWEN PSGWLIGFDF DVYSYLTSHRG GITEATLYFE NVTEEEYIGNT YKCRGHNYYF EKTLTTTVLE
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**Predicted Molecular Mass:** 38.4 kDa

**Species:** Vaccinia virus

**Cross Reactivity:** Not determined

**Formulation:** Sterile filtered liquid containing phosphate and sodium chloride, pH 7.5.

**Source:** Insect cells

**Specifications**

**Activity:** The specific activity is ≥ 1.3 x 10^6 units/mg as determined by a neutralization assay of recombinant mouse IFN alpha 2 protein.

**Purity:** ≥ 98%

**Endotoxin Level:** Measured by kinetic limulus amebocyte lysate (LAL) analysis and is ≤ 0.01 ng/μg protein.

**Preparation and Storage**

**Storage:** Store at -80°C.

**Stability:** Stable as supplied for 12 months from date of receipt.

**Reconstitution:** Not applicable
Related Products

For a complete list of cytokines, as well as related products available from STEMCELL Technologies, please visit our website at www.stemcell.com/cytokines or contact us at techsupport@stemcell.com.

References


