

B18R Protein, Vaccinia virus (HEK293, His)

Cat. No.:	HY-P70015
Synonyms:	rVaSoluble interferon alpha/beta receptor B18/VACWR200, His; Soluble interferon alpha/beta receptor B18; VACWR200
Species:	Virus
Source:	HEK293
Accession:	P25213 (H20-E351)
Gene ID:	3707577
Molecular Weight:	46-65 kDa

PROPERTIES

AA Sequence	<pre> H S Y A I D I E N E I T E F F N K M R D T L P A K D S K W L N P A C M F G G T M N D I A A L G E P F S A K C P P I E D S L L S H R Y K D Y V V K W E R L E K N R R R Q V S N K R V K H G D L W I A N Y T S K F S N R R Y L C T V T T K N G D C V Q G I V R S H I R K P P S C I P K T Y E L G T H D K Y G I D L Y C G I L Y A K H Y N N I T W Y K D N K E I N I D D I K Y S Q T G K E L I I H N P E L E D S G R Y D C Y V H Y D D V R I K N D I V V S R C K I L T V I P S Q D H R F K L I L D P K I N V T I G E P A N I T C T A V S T S L L I D D V L I E W E N P S G W L I G F D F D V Y S V L T S R G G I T E A T L Y F E N V T E E Y I G N T Y K C R G H N Y Y F E K T L T T T V V L E </pre>
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized IFN- α 1a at 2 μ g/mL (100 μ L/well) can bind Vaccinia virus B18R. The ED ₅₀ for this effect is 9.681 ng/mL.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μ m filtered solution of PBS, pH 7.4 or 20 mM PB, 150 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

The B18R protein functions as a potent antagonist against the antiviral effects induced by host IFN-alpha/beta and key IFN-inducible proteins, including the host OAS1 involved in viral RNA degradation. Acting as a soluble IFN-alpha receptor, B18R inhibits the interaction between host IFN-alpha and its receptor. This interference in the IFN-alpha signaling pathway serves to counteract the host's innate immune response against viral infections. Notably, B18R achieves its inhibitory effects by interacting with host IFNA1. The multifaceted actions of B18R underscore its role as a viral immune evasion strategy, highlighting its importance in modulating the host's antiviral defenses.

Caution: Product has not been fully validated for medical applications. For research use only.

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