

## Recombinant Viral 136R/Y136

Catalog Number: 8976-BR

DESCRIPTION			
Source	Chinese Hamster Ovary cell line, CHO-derived		
	Viral 136R/Y136 (Tyr17-Lys351) Accession # Q9DHH7	HPGGGSGGGSGGS	ннннн
	N-terminus C-terminus		
N-terminal Sequence Analysis	Tyr17		
Predicted Molecular Mass	41 kDa		
SPECIFICATIONS			
SDS-PAGE	88-120 kDa, reducing conditions		
Activity	Measured by its ability to inhibit Type-I and Type-III IFN-mediated anti-viral activity. Huang, J. <i>et al.</i> (2007) PANS <b>104</b> :9822. The ED <sub>50</sub> for this effect is 2-12 ng/mL in the presence of 20 pg/mL Recombinant Human IFN-β (Catalog # 8499-IF).		
Endotoxin Level	<0.10 EU per 1 µg of the protein by the LAL method.		
Purity	>95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.		
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.		
PREPARATION AND S	TORACE		
Reconstitution	Reconstitute at 500 µg/mL in PBS.		
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.		
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.		
.,	<ul> <li>12 months from date of receipt, -20 to -70 °C as supplied.</li> </ul>		
	<ul> <li>1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> </ul>		
	<ul> <li>3 months, -20 to -70 °C under sterile cond</li> </ul>	litions after reconstitution.	

## BACKGROUND

136R, also known as Y136, is an approximately 80 kDa glycosylated and secreted protein encoded by the Yaba-like disease virus genome (1). 136R binds directly to type I and type III interferons (IFN-alpha and IFN-lambda) (1). It prevents the interaction of rhesus and human IFN-alpha as well as human IFN-beta with the IFN-gamma R1 complex, although it shares only 14% amino acid sequence identity with the ECD of human IFN-gamma R1 (1). 136R blocks STAT1 signaling and the anti-viral protective functions of IFN-alpha, -beta, -omega, -kappa, and -lambda 1/IL-29 (1).

## References:

1. Huang, J. et al. (2007) Proc. Natl. Acad. Sci. USA 104:9822.

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