

Zika virus (ZIKV) (strain Zika SPH2015) ZIKV-NS1 protein (His)

General Information

Protein Construction:	A DNA sequence encoding the Zika virus (strain Zika SPH2015) NS1 (ALU33341.1) (Val796-Leu1157) was expressed with a polyhistidine tag at the N-terminus. Predicted N terminal: His
Species:	ZIKV
Expression Host:	HEK293 Cells
Accession:	ALU33341.1
Molecular Weight:	43.5 kDa (predicted); 50 kDa (reducing conditions)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 95 % as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:	Reconstituted with sterile deionized water to 0.25 mg/mL. Reconstitution conditions may vary depending on the lot.
Stability & Storage:	It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots. <small>Actual storage temperature shall be subject to the COA.</small>
Shipping:	In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Zika virus NS1 antigen is one of seven non-structural proteins. NS1 is involved in RNA replication. The possible effects of NS1 on hosts include: localizes to host cell surface and secreted extracellularly, modulates signalling of the innate immune system, has possible damages to platelets and endothelial cells through anti-NS1 antibodies.

Reference

Wong SS-Y, et al., Zika virus infection the next wave after dengue?, Journal of the Formosan Medical Association (2016)

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