

Product Information	
Catalog No.	PV10964
Product name	ZIKV Recombinant Protein prM/prM Protein (N-GST & C-His)
Applications	ELISA, Immunogen, SDS-PAGE, WB, Bioactivity testing in progress
Form	Lyophilized
Storage buffer	Lyophilized from a solution in PBS pH 7.4, 0.02% NLS, 1 mM EDTA, 4% Trehalose, 1% Mannitol.
Purity	>90% as determined by SDS-PAGE.
Expression system	E. coli
Accession	Q32ZE1
Protein length	Ser130-Arg215
Nature	Recombinant
Endotoxin level	Please contact with the lab for this information.
Stability and Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8°C for frequent use. Store at -20 to -80°C for twelve months from the date of receipt.
Reconstitution	Reconstitute in sterile water for a stock solution. Adjust the volume of sterile water so that, after reconstitution, the final stock concentration matches the value indicated on the product label or datasheet. RECONSTITUTION PROTOCOL 1. Allow the product to be reconstituted and the reconstitution diluent to reach room temperature. 2. Tap or briefly centrifuge the product vial before opening to dislodge any lyophilized material that may be dispersed on the wall or cap of the vial. 3. Use the diluent and stock concentration recommended in the product datasheet. If preparing a stock concentration higher than recommended, contact Technical Service. 4. After adding the diluent, re-cap the vial and invert gently by hand or place on a slow rocking platform to allow the reconstitution diluent to coat all the surfaces inside the vial. Note: Do not mix by vortexing or by pipetting the material up and down. 5. Allow the vial to sit at room temperature with gentle agitation for at least 15 minutes before aliquotting or using. 6. Store the reconstituted material in single use aliquots in polypropylene or siliconized tubes. Aliquots of 10 uL or larger are recommended.

Alternative Names	Genome polyprotein, Capsid protein C, Capsid protein, Core protein, Protein prM, Precursor membrane protein, Peptide pr, Peptide precursor, Small envelope protein M, Matrix protein, Envelope protein E, Non-structural protein 1, NS1, Non-structural protein 2A, NS2A, Serine protease subunit NS2B, Flavivirin protease NS2B regulatory subunit, Non-structural protein 2B, Serine protease NS3, 3.4.21.91, 3.6.1.15, 3.6.4.13, Flavivirin protease NS3 catalytic subunit, Non-structural protein 3, Non-structural protein 4A, NS4A, Peptide 2k, Non-structural protein 4B, NS4B, RNA-directed RNA polymerase NS5, 2.1.1.56, 2.1.1.57, 2.7.7.48, NS5
Species	Zika virus (ZIKV)
Shipping	In general, proteins are provided as lyophilized powder/frozen liquid. They are shipped out with dry ice/blue ice unless customers require otherwise.
Note	For research use only.

Background

Zika virus (ZIKV) is an arthropod-borne flavivirus transmitted mainly by *Aedes aegypti* and *Aedes albopictus* mosquitoes. Closely related to dengue and yellow fever viruses, ZIKV was first discovered in Uganda in 1947. While most infections cause mild fever, rash, and conjunctivitis, major outbreaks in the Americas revealed strong links to Guillain–Barré syndrome in adults and congenital Zika syndrome in newborns, including microcephaly and other neurological defects.

At the molecular level, ZIKV is a positive-sense single-stranded RNA virus, encoding both structural proteins (C, prM, E) and non-structural proteins (NS1–NS5). These viral proteins play central roles in viral replication, immune evasion, and host-pathogen interactions, making them key research targets. Two major lineages—African and Asian—have been identified, with the Asian lineage responsible for large-scale epidemics in the Pacific and the Americas.

With no licensed vaccine or antiviral therapy available, ZIKV remains a priority in global virology and immunology research. abinScience supports scientists by providing high-quality ZIKV antibodies, recombinant proteins, and assay solutions to accelerate discoveries in pathogenesis, diagnostics, and therapeutic development.