

**Product Name: Recombinant Langya virus/LayV F/Fusion Protein, N-His-SUMO**  
**Catalog #: PEX10976**

## Summary

|                                 |                                                                                                                                                                                                                                                                                        |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Name</b>                     | Langya virus/LayV F/Fusion Protein                                                                                                                                                                                                                                                     |
| <b>Purity</b>                   | >90% as determined by SDS-PAGE.                                                                                                                                                                                                                                                        |
| <b>Endotoxin level</b>          | Please contact with the lab for this information.                                                                                                                                                                                                                                      |
| <b>Construction</b>             | Ser21-Gly107                                                                                                                                                                                                                                                                           |
| <b>Accession #</b>              | UUV47205.1                                                                                                                                                                                                                                                                             |
| <b>Host</b>                     | E. coli                                                                                                                                                                                                                                                                                |
| <b>Species</b>                  | Langya virus                                                                                                                                                                                                                                                                           |
| <b>Predicted Molecular Mass</b> | 23.27 kDa                                                                                                                                                                                                                                                                              |
| <b>Formulation</b>              | 0.01M PBS, pH 7.4.                                                                                                                                                                                                                                                                     |
| <b>Shipping</b>                 | In general, proteins are provided as lyophilized powder/frozen liquid. They are shipped out with dry ice/blue ice unless customers require otherwise.                                                                                                                                  |
| <b>Stability&amp;Storage</b>    | 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.                                                                                                              |
| <b>Reconstitution</b>           | Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100µg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles. |

## Alternative Names

Langya virus/LayV F/Fusion Protein

## Background

Nipah virus (NiV), a highly pathogenic zoonotic paramyxovirus, mediates host cell entry through the coordinated action of two envelope glycoproteins: the attachment glycoprotein (G), which engages the host cell receptors ephrin-B2 and ephrin-B22, and the fusion glycoprotein (F), which drives membrane fusion following receptor binding. These viral surface proteins, along with the viral RNA-dependent RNA polymerase (RdRp) complex comprising the nucleoprotein (N), phosphoprotein (P), and large polymerase protein (L), constitute the primary molecular targets for therapeutic intervention and vaccine development. The conserved receptor-binding interface of the G protein and the fusion machinery of the F protein represent particularly attractive targets for neutralizing antibodies and entry inhibitors, while the viral replication machinery offers potential targets for broad-spectrum antiviral compounds targeting paramyxovirus transcription and replication.



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**Note**

For Research Use Only , Not for Diagnostic Use.