

## Recombinant MAYV VLP, mFc-tagged

**Cat. No.** MAY-493    **Lot. No.** (See product label)

### SPECIFICATION

#### Product Overview

We have prepared recombinant Mayaro Virus VLP utilising our proprietary mammalian cell expression system. These particles contain Capsid and E1 and E2 envelope proteins. They will find application for researchers and assay developers who are looking to develop assays to distinguish Mayaro virus infection from Chikungunya virus.

#### Tag

mFc

#### Background

Mayaro virus (MAYV) is a positive-sense single stranded RNA virus that belongs to the genus Alphavirus, a member of the Togaviridae family of viruses. It is a member of the Semliki Forest antigenic sero-complex, a serological group within the Alphavirus genus, and is closely related to Chikungunya virus (CHIKV) (Esposito, D.L.A).

Infection with Mayaro virus causes an acute, self-limited dengue-like illness of 3–5 days duration, characterized by fever, headache, myalgia, rash, prominent pain in the large joints, and association with rheumatic disease. MAYV is recognised as an emerging virus with the potential to cause a major epidemic in Central and South American countries. Currently, there is no licensed prophylactic vaccine or specific treatment for MAYV fever. Prevention of MAYV is through vector control measures to reduce transmission of the virus. Given the geographical distribution of MAYV and the similarity of the symptoms of Mayaro fever to infections caused by other arboviruses such as Dengue fever, Chikungunya and Zika virus, it is considered important to be able to differentiate diagnostically between these arboviral diseases (CDC). Diagnosis of MAYV infection may be achieved by serological testing for MAYV specific IgM

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antibodies using enzyme immunoassays (EIA). However, cross reactivity with related viruses can reduce assay sensitivity and prevent accurate diagnosis (Figueiredo, ML).

|                        |                                                                       |
|------------------------|-----------------------------------------------------------------------|
| <b>Sequence Strain</b> | Acre27(GenBank accession number KM400591.1)                           |
| <b>Formulation</b>     | DPBS pH7.4                                                            |
| <b>Freezing</b>        | Freeze on arrival, but avoid multiple freeze/thaw cycles              |
| <b>Applications</b>    | Suitable for use in immunoassay development.                          |
| <b>Storage</b>         | -80 centigrade.                                                       |
| <b>Concentration</b>   | 0.52 mg/mL (according to BCA assay using BSA standards in DPBS pH7.4) |
| <b>Type</b>            | Recombinant                                                           |
| <b>ClassID 1</b>       | Infectious Disease                                                    |

## GENE INFORMATION

|                 |                  |
|-----------------|------------------|
| <b>Synonyms</b> | Mayaro Virus VLP |
|-----------------|------------------|

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