

## Datasheet: PIP048A BATCH NUMBER 158148

| Description:  | RECOMBINANT DENGUE VIRUS TYPE 2 NS1 ANTIGEN |
|---------------|---|
| Name:         | DENGUE VIRUS TYPE 2 NS1 ANTIGEN             |
| Other names:  | DENV2 NS1 ANTIGEN                           |
| Format:       | Rec. Protein                                |
| Product Type: | Recombinant Protein                         |
| Quantity:     | 100 µg                                      |

## **Product Details**

| Applications                      | This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit <u>www.bio-rad-antibodies.com/protocols</u> . |                            |                            |   |                       |  |
|-----------------------------------|--|----------------------------|----------------------------|---|-----------------------|--|
|                                   |  | Yes                        | No                         | Not Determined                                  | Suggested Dilution    |  |
|                                   | ELISA  | •                          |                            |   |                       |  |
|                                   | Where this product has not been tested for use in a particular technique this does<br>necessarily exclude its use in such procedures. Suggested working dilutions are g<br>a guide only. It is recommended that the user titrates the product for use in their of<br>system using appropriate negative/positive controls.  |                            |                            |   |                       |  |
| Target Species                    | Viral  |                            |                            |   |                       |  |
| Product Form                      | Purified recombinant pro   | otein with a               | a C-termir                 | nal 6 x His-tag - liquid                        |                       |  |
| Preparation                       | Recombinant dengue vi<br>expressed in 293 humar  |                            | be 2 NS1                   | protein, sequence stra                          | in Thailand/16681/84, |  |
| Buffer Solution                   | Dulbecco's phosphate b   | uffered sa                 | line                       |   |                       |  |
| Preservative<br>Stabilisers       | None present   |                            |                            |   |                       |  |
| Approx. Protein<br>Concentrations | Total protein concentrati  | on 1.01 m                  | g/ml                       |   |                       |  |
| Specificity                       | <b>Recombinant dengue</b><br>virus serotype 2 (DENV2<br>(DENV1-4) antigenically<br><i>Flaviviridae</i> family, genu  | 2), non-str<br>distinct, c | uctural pro<br>losely rela | otein 1 (NS1). DENV2<br>ated viral serotypes be | is one of four        |  |

humans.

| Health And Safety<br>Information |           | Material Safety Datasheet documentation #10286 available at:<br>https://www.bio-rad-antibodies.com/SDS/PIP048A<br>10286  |  |  |  |  |
|----------------------------------|-----------|--|--|--|--|--|
| Acknowle                         | edgements | His-tag is a registered trademark of EMD Biosciences.  |  |  |  |  |
| Guarante                         | 90        | 12 months from date of despatch  |  |  |  |  |
| Storage                          |           | Store at -70°C.<br>Storage in frost-free freezers is not recommended.<br>This product should be stored undiluted. Avoid repeated freezing and thawing as this m<br>denature the protein. Should this product contain a precipitate we recommend<br>microcentrifugation before use.   |  |  |  |  |
| Further F                        | Reading   | 1. Guzman, M.G. <i>et al.</i> (2010) Dengue: a continuing global threat. <u>Nat Rev Microbiol. 8</u><br>( <u>12 Suppl): S7-16.</u>   |  |  |  |  |
| Purity                           |           | >95% by SDS PAGE analysis  |  |  |  |  |
|                                  |           | Recombinant DENV2 NS1 antigen is presented in its native folded state complete with post-translational modifications, delivering optimal antigenicity and making it suitable for use in vaccine research and serology-based assays.  |  |  |  |  |
|                                  |           | The NS1 glycoprotein is essential for viral replication and viability, and since this protein secreted into the bloodstream, tests have been developed to diagnose DENV infections using NS1, including antigen-capture ELISA, lateral flow antigen detection, and the measurement of NS1-specific IgM and IgG responses (Guzman, M.G. <i>et al.</i> 2010).  |  |  |  |  |
|                                  |           | tropical and subtropical regions. There is currently no vaccine to prevent, or effective<br>anti-viral drugs to treat, dengue virus infection. In many cases infection is assymptomati<br>and the majority of individuals who get ill only suffer the mild, non-specific febrile<br>symptoms characteristic of dengue fever (DF). Only a minority of infections result in<br>severe disease, manifesting as dengue hemorrhagic fever (DHF) or dengue shock<br>syndrome (DSS). Dengue virus infection gives lifelong immunity to the serotype in<br>question but subsequent infection with another serotype may increase the likelihood of<br>severe disease. |  |  |  |  |

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