

CHARACTERIZATION OF ENVELOPE (E) PROTEIN OF DENGUE VIRUS INDONESIA ISOLATE

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ABSTRACT

Dengue virus is a human pathogen that has as an increasingly important public health threat. These virus have four serotypes (DEN-1, DEN-2, DEN-3, DEN-4). There is no specific treatment for any pathogenic dengue virus and there are few vaccines available. This study was carry out to E protein characterization from dengue virus infected C6/36 cells for vaccine candidate. We found that the E protein induced antibody response The data of the reactivity on the nitocellulose membrane between E protein against polyclonal and monoclonal antibodies on western blot analysis, shown that the E protein which was once of dengue virus protein has imunogenic. The Indonesia isolate had no difference with the Phillipine isolate. The results suggested that all of the E proteins dengue virus strain have peptides overlapping. Also promising for the production of immunogenic particulate proteins, especially DEN protein for the four strains.