## Overview

<table>
<thead>
<tr>
<th>Product name</th>
<th>Recombinant Dengue virus 2 Dengue Virus 2 envelope protein</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protein length</td>
<td>Protein fragment</td>
</tr>
</tbody>
</table>

## Description

<table>
<thead>
<tr>
<th>Nature</th>
<th>Recombinant</th>
</tr>
</thead>
<tbody>
<tr>
<td>Source</td>
<td>Escherichia coli</td>
</tr>
<tr>
<td>Amino Acid Sequence</td>
<td>Dengue virus 2</td>
</tr>
<tr>
<td>Sequence</td>
<td>MGSSHHHHHHHSSGLVPRGSSEGSSYSMTGKFKVVKINQAEITQHGTVIRVRQYEGDGSAPCKIPFEMLEKRVHLGRITVNPVTEKDSPVNIEAPPFGDSYIIIGVEPQQLKLNWFKKGSSIGQ</td>
</tr>
<tr>
<td>Molecular weight</td>
<td>14 kDa including tags</td>
</tr>
<tr>
<td>Amino acids</td>
<td>298 to 400</td>
</tr>
<tr>
<td>Tags</td>
<td>His tag N-Terminus</td>
</tr>
</tbody>
</table>

## Specifications

Our Abpromise guarantee covers the use of ab180271 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

### Applications

- SDS-PAGE

### Purity

- > 95% SDS-PAGE. ab180271 is purified using conventional chromatography techniques.

### Form

- Liquid

## Preparation and Storage

<table>
<thead>
<tr>
<th>Stability and Storage</th>
<th>Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.</th>
</tr>
</thead>
</table>
pH: 8
Constituents: 0.32% Tris HCl, 0.88% Sodium chloride, 10% Glycerol, 0.02% DTT

**General Info**

**Relevance**
Dengue fever and dengue hemorrhagic fever (DHF) are acute febrile diseases, found in the tropics, with a geographical spread similar to malaria. Caused by one of four closely related virus serotypes of the genus Flavivirus, family Flaviviridae, each serotype is sufficiently different that there is no cross-protection and epidemics caused by multiple serotypes (hyperendemicity) can occur. Dengue is transmitted to humans by the mosquito Aedes aegypti (rarely Aedes albopictus). Envelope protein E binds cell surface receptor and is involved in membrane fusion between virion and target cell. Synthesized as an homodimer with prM which acts as a chaperone for envelope protein E. After cleavage of prM, envelope protein E dissociate from small envelope protein M and homodimerizes.

**Cellular localization**
Virion membrane; Single-pass type I membrane protein

**Images**

15% SDS-PAGE (3 µg)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- Response to your inquiry within 24 hours
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- We investigate all quality concerns to ensure our products perform to the highest standards

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