## Description

<table>
<thead>
<tr>
<th><strong>Product name</strong></th>
<th>Recombinant Dengue virus 2 Dengue Virus 2 envelope protein</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Purity</strong></td>
<td>&gt; 95% SDS-PAGE. ab180271 is purified using conventional chromatography techniques.</td>
</tr>
<tr>
<td><strong>Expression system</strong></td>
<td>Escherichia coli</td>
</tr>
<tr>
<td><strong>Protein length</strong></td>
<td>Protein fragment</td>
</tr>
<tr>
<td><strong>Animal free</strong></td>
<td>No</td>
</tr>
<tr>
<td><strong>Nature</strong></td>
<td>Recombinant</td>
</tr>
<tr>
<td><strong>Species</strong></td>
<td>Dengue virus 2</td>
</tr>
</tbody>
</table>

### Sequence

```
MGSSHHHHHHSSGLVPRGSHTMGSSYSMCTGFKVVK
KEAETQHGTIVR
QYEGDGPCKIPFEIMDEKHLGRLTVNPVTEKDS
PVNIEAPPFGDSYIGVEPGQLKLNWFKKGSSIQ
```

| **Predicted molecular weight** | 14 kDa including tags |
| **Amino acids** | 298 to 400 |
| **Tags** | His tag N-Terminus |

## 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

### Form

- Liquid

## Preparation and Storage

**Stability and Storage**

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.

- pH: 8
- Constituents: 0.32% Tris HCl, 0.88% Sodium chloride, 10% Glycerol, 0.02% DTT
**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

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**Images**

15% SDS-PAGE (3 µg)

SDS-PAGE - Recombinant Dengue Virus 2 Dengue Virus 2 envelope protein (ab180271)

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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
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

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