

Recombinant dengue virus 2 Envelope protein

Catalog Number: ATGP2755

PRODUCT INFORMATION

Expression system

E.coli

Domain

298-400aa

UniProt No.

Q88631

NCBI Accession No.

AAA42954

Alternative Names

Dengue virus 2 envelope protein

PRODUCT SPECIFICATION

Molecular Weight

13.8 kDa (126aa)

Concentration

0.5mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT

Purity

> 95% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

Envelope protein E binding to host cell surface receptor is followed by virus internalization through clathrin-mediated endocytosis. Envelope protein E is subsequently involved in membrane fusion between virion and host late endosomes. This protein is synthesized as a 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. Recombinant Dengue virus DENV protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

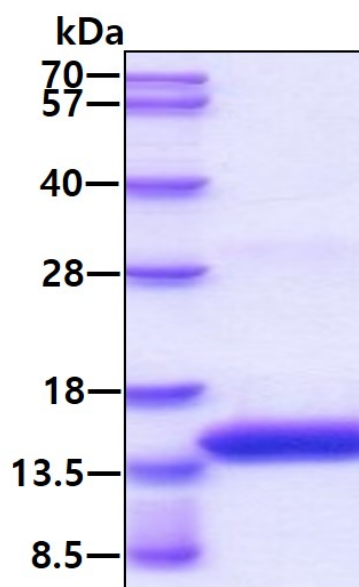
<MGSSHHHHHH SSGLVPRGSH MGS>SYSMCTG KFKVVKEIAE TQHGTIVIRV QYEGDGSPCK IPFEIMDLEK RHLVGLRLITV
NPIVTEKDSP VNIEAEPFPG DSYIIIGVEP GQLKLNWFKK GSSIGQ

General References

Blok J., et al. (1989) Arch. Virol. 105:39-53

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.