

# **Product Information Sheet for NR-2672**

# Peptide Array, SARS-CoV E Protein

## Catalog No. NR-2672

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## For research use only. Not for human use.

#### Contributor:

NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH

## **Product Description:**

Peptides are 15- to 18-mers, with approximately 10 amino acid overlaps. The 9-peptide array spans the E protein of the Urbani strain of SARS-CoV (GenBank: AY278741). Please see the Certificate of Analysis for length and sequence of individual peptides, molecular weight, purity by HPLC analysis, and peptide content.

#### **Material Provided:**

Peptides are provided lyophilized at 1 mg per vial.

## Packaging/Storage:

Lyophilized peptides should be placed in a closed dry environment with dessicants and stored at -20°C or colder immediately upon arrival. A frost-free freezer should be avoided, since changes in moisture and temperature may affect peptide stability.

#### Solubility:

Solubility may vary based on the amino acid content of the individual peptide. Please see the Certificate of Analysis for solubility information.

#### Reconstitution:

Lyophilized peptides should be warmed to room temperature for 1 hour prior to reconstitution. They should be dissolved at the highest possible concentration, and then diluted with water or buffer to the working concentration. Buffer should be added only after the peptide is completely in solution because salts may cause aggregation.

The most common dissolution process is 1 mg of peptide in 1 mL of sterile, distilled water. Peptides that are not soluble in water can almost always be dissolved in DMSO. Once a peptide is in solution, the DMSO can be slowly diluted with aqueous medium. Care must be taken to ensure that the peptide does not begin to precipitate out of solution. For cell-based assays, 0.5% DMSO is usually well-tolerated.

Sonication and/or the addition of small amounts of dilute (10%) aqueous acetic acid for basic peptides, aqueous ammonia for acidic peptides or acetonitrile may also help dissolution. These solvents may not be appropriate for certain applications, including cell-based assays.

## **Storage of Reconstituted Peptides:**

The shelf life of peptides in solution is very limited, especially for sequences containing cysteine, methionine, tryptophan, asparagine, glutamine, and N-terminal glutamic acid. In general, peptides may be aliquoted and stored in solution for a few days at -20°C or colder. For long-term storage, peptides should be re-lyophilized and stored at -20°C or colder. If long-term storage in solution is unavoidable, peptide solutions should be buffered to pH 5–6, aliquoted, and stored at -20°C or colder. Freeze-thaw cycles should be avoided.

#### Citation:

Acknowledgment for publications should read "The following reagent was obtained through the NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH: Peptide Array, SARS-CoV E Protein, NR-2672."

## Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories. 4th ed. Washington, DC: U.S. Government Printing Office, 1999. HHS Publication No. (CDC) 93-8395. This text is available online at <a href="https://www.cdc.gov/od/ohs/biosfty/bmbl4/bmbl4toc.htm">www.cdc.gov/od/ohs/biosfty/bmbl4/bmbl4toc.htm</a>.

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#### References:

 Rota, P. A., et al. "Characterization of a Novel Coronavirus Associated with Severe Acute Respiratory Syndrome." <u>Science</u> 300 (2003): 1394–1399. PubMed: 12730500. GenBank: AY278741.

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