

# Product Information

## Coxsackie A16 virus (CA16) Inactivated Virus

Cat. No.: **VLP-049YF**

This product is for research use only and is not intended for diagnostic use.

Coxsackie A16 virus stock is produced by cell culture and formulated with purified, intact viral particles. The virus particles have been chemically modified to render them non-infectious and refrigerator stable. The inactivation was verified in a standard microbiological growth protocol. CA16 stock can be used in the development of CA16 diagnostics and in vaccine development and R&D.

### Product Specifications

#### Expression Systems

Cell culture

#### Purity

>90%

#### Form

Liquid

#### Alternative Names

Coxsackie A16 virus; CA16; Coxsackie A16 virus antigen; CA16 antigen

#### Storage

Store at -80°C long term. Avoid repeated freeze/thaw cycles.

### Virus Background

#### Virus Family

Picornaviridae

#### Virus Species

Enterovirus A

#### Virus Overview

Coxsackie A virus is a subgroup of enterovirus A, which are small, non-enveloped, positive-sense, single-stranded RNA viruses. Its protective, icosahedral capsid has an external portion that contains sixty copies of viral proteins (VP1,-2,-3) and an internal portion surrounding the RNA genome containing sixty copies of VP4 viral proteins. This capsid mediates cell entry and illicit the humoral immune responses. Enteroviruses have a depression encircling each fivefold axis (canyon), which is their binding site for immunoglobulin-like receptors. This binding can trigger viral expansion and release of its genome.

#### Virus Structure

Non-enveloped, positive-sense, single-stranded RNA virus

**Related Disease**

Hand, foot and mouth disease (HFMD)