

# Product Information

## Coxsackievirus A16 Virus-like Particles (CA16 VLPs)

Cat. No.: **VLP-005YF**

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

Recombinant Coxsackievirus A16 Virus-like Particles (CA16 VLPs) are produced in Baculovirus/Insect cell expression system. VLP is mimicking the native 3D structure of viruses which can elicit strong immune responses. However, VLPs lack viral genomic material which makes them non-infectious, unable to replicate and enhance the safety during manufacture and administration. CA16 VLPs can be used in the development of CA16 diagnostics and in vaccine development and R&D (including use as an immunogen).

### Product Specifications

#### Expression Systems

Baculovirus/Insect cell expression system (please specify if other expression system is needed)

#### Form

Liquid

#### Alternative Names

Coxsackievirus; Coxsackievirus A16; CA16; VLP; Virus-like particle

#### Storage

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

### Virus Background

#### Virus Family

Picornaviridae

#### Virus Species

Enterovirus A

#### Virus Overview

Coxsackievirus is a member of the Picornaviridae family of viruses in the genus termed Enterovirus. Coxsackieviruses are subtype members of Enterovirus that have a single strand of ribonucleic acid (RNA) for its genetic material. The entry of coxsackievirus into cells, especially endothelial cells, is mediated by Coxsackievirus and adenovirus receptor.

#### Virus Structure

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

#### Related Disease

Hand, foot and mouth disease (HFMD)