

Product Information

Hepatitis C Virus-like Particles (HCV VLPs)

Cat. No.: **VLP-046YF**

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

Recombinant Hepatitis C Virus-like Particles (HCV VLPs) are produced in Baculovirus/Insect cell expression system, assembled with HCV envelope 1 (E1) protein, HCV envelope 2 (E2) protein and p7 protein. 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. HCV VLPs can be used in the development of HCV diagnostics and in vaccine development and R&D (including use as an immunogen).

Product Specifications

Structural Proteins

HCV envelope 1 (E1) protein, HCV envelope 2 (E2) protein and p7 protein

Expression Systems

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

Form

Liquid

Alternative Names

Hepatitis C Virus-like Particles; Hepatitis C VLPs; Hepatitis C Virus; HCV VLPs; Virus-like Particles; VLPs

Storage

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

Virus Background

Virus Family

Flaviviridae

Virus Species

Hepacivirus C

Virus Overview

The hepatitis C virus (HCV) is a small (55-65 nm in size), enveloped, positive-sense single-stranded RNA virus of the family Flaviviridae. The hepatitis C virus is the cause of hepatitis C and some cancers such as liver cancer (hepatocellular carcinoma, abbreviated HCC) and lymphomas in humans.

Virus Structure

Enveloped, positive-sense, single-stranded RNA virus

Related Disease

