

# Product Information

## Rabies virus Virus-like Particles (RV VLPs)

Cat. No.: **VLP-045YF**

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

Recombinant Rabies virus Virus-like Particles (RV VLPs) are produced in Baculovirus/Insect cell expression system, assembled with G proteins. 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. RV VLPs can be used in the development of RV diagnostics and in vaccine development and R&D (including use as an immunogen).

## Product Specifications

### Structural Proteins

G protein

### Expression Systems

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

### Form

Liquid

### Alternative Names

Rabies virus Virus-like Particles; Rabies virus VLPs; RV VLPs; Rabies virus; Virus-like Particles; VLPs

### Storage

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

## Virus Background

### Virus Family

Rhabdoviridae

### Virus Species

Rabies lyssavirus

### Virus Overview

Rabies lyssavirus (RABV), is a neurotropic virus that causes rabies in humans and animals. Rabies lyssavirus has a cylindrical morphology and is the type species of the Lyssavirus genus of the Rhabdoviridae family. These viruses are enveloped and have a single stranded RNA genome with negative-sense. The genetic information is packaged as a ribonucleoprotein complex in which RNA is tightly bound by the viral nucleoprotein. The RNA genome of the virus encodes five genes whose order is highly conserved. These genes code for nucleoprotein (N), phosphoprotein (P), matrix protein (M), glycoprotein (G) and the viral RNA polymerase (L). The complete genome sequences range from 11,615 to 11,966 nt in length.

### Virus Structure

Enveloped, negative-sense, single-stranded RNA virus

**Related Disease**

Rabies