

Porcine circovirus 2 (PCV2) Capsid Protein (E. coli, His)

General Information

Synonyms: Cap;Capsid protein

Protein Construction: 1-233 aa

Species: PCV2

Expression Host: E. coli

Accession: O56129

Molecular Weight: 32.0 kDa (predicted)

AA Sequence: MTYPRRRYRRRRHRPRSHLGQILRRRPWLVHPRHRYRWRKNGIFNTRLSRTFGYTVKATTVRTPSWAVDM
MRFNIDDFVPPGGGTNKISIPFEYYRIRKVKVEFWPCSPITQGDRGVGSTAVILDDNFVKATALTYDPYVNY
SRHTIPQPFYSYHSRYFTP KPVLDSTIDYFQPNKRTQLWLRLQTSRNVDHVGLGTAFENSIYDQDYNIRVTMY
VQFREFNLKDPPLKP

QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

Purity: > 85% as determined by SDS-PAGE.

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Self-assembles to form the virion icosahedral capsid with a T=1 symmetry. This very small capsid (17 - 22 nm in

diameter) allows the virus to be very stable in the environment and resistant to some disinfectants, including detergents. Essential for the initial attachment to heparan sulfate moieties and chondroitin sulfate B of the host cell surface proteoglycans. After attachment, the virus is internalized in a clathrin-, caveolae- and dynamin-independent, actin and Rho-GTPase-mediated pathway and traffics to the nucleus. The capsid protein binds and transports the viral genome and Rep across the nuclear envelope.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481