

Norovirus (strain Human/NoV/United States/Norwalk/1968/GI) VP1 Protein (Flag & Myc)

General Information

Synonyms: CP;p59;Capsid protein VP1;Coat protein

Protein Construction: 1-530 aa

Species: Norwalk virus

Expression Host: HEK293 Cells

Accession: Q83884

Molecular Weight: 59.6 kDa (predicted)

AA Sequence: MMMASKDATSSVDGASGAGQLVPEVNASDPLAMDPVAGSSTAVATAGQVNPIDPWIINNFVQAPQGEFTI
SPNNTPGDVLFDLSLGPLNPFLLHLSQMYNGWVGNMRVRIMLAGNAFTAGKIIVSCIPPGFGSHNLTIQAT
LFPHVIADVRLDPIEVPLEDVRNVLFHNNDRNQQTMLVCMLYTPLRTGGGTGDSFVVAGRVMTCPSPDFN
FLFLVPPTVEQKTRPFTLPNLPLSSLSNSRAPLPISSMGISPDNVQSVQFQNGRCLDGRLVGTTTPVSLSHVAKI
RGTSNGTVINLTELDGTPFHPFEGPAPIGFDPDLGGCDWHINMTQFGHSSQTQYDVTTPDTFVPHLGSIQAN
GIGSGNYVGVLSWISPPSHPSGSQVDLWKIPNYGSSITEATHLAPSVYPPGFGEVLVFFMSKMPGPGAYNLPC
LLPQEYISHLASEQAPTVEAALLHYVDPDTGRNLGEFKAYPDGFLTCTVNGASSGPQQLPINGVVFVSWVS
RFYQLKPVGTASSARGRLGLRR

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: > 90% as determined by SDS-PAGE.

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

Formulation: Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

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

A DRUG SCREENING EXPERT

Capsid protein self assembles to form an icosahedral capsid with a T=3 symmetry, about 38 nm in diameter, and consisting of 180 capsid proteins. A smaller form of capsid with a diameter of 23 nm might be capsid proteins assembled as icosahedron with T=1 symmetry. The capsid encapsulate the genomic RNA and VP2 proteins. Attaches virion to target cells by binding histo-blood group antigens present on gastroduodenal epithelial cells.; Soluble capsid protein may play a role in viral immunoevasion.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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