
Product Data Sheet

Product Name: Norovirus Group-1
Cat. No.: GP25468
Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Formulation	Phosphate buffer with 0.05% NaN ₃ .		

Introduction

Human norovirus is classified into two groups, group 1 & group 2. Norwalk virus is the species which belongs to group 1 and was discovered in 1968 at Ohio. Norovirus is a familiar virus which causes human gastroenteritis with the following symptoms vomiting, diarrhea and sickness. CDC report revealed that there are 19-21 million Americans infected by Norovirus annually with 800 deaths, 1 in 15 people with infection. Around the world, this virus affects about 267 million people and causes over 200,000 deaths each year; these losses are mostly in less developed countries and in the very young, elderly and immuno-suppressed population, though, most cases are self-limited with a full recovery within just a few days. Norovirus is extremely contagious and can spread from human to human through infected food, water or contaminated surfaces. The outbreaks usually occur from November-April, while the peak is in January. Norovirus is a positive sense RNA virus with 7.5 kb nucleotides, encoding a major structural protein VP1 with 50-55kDa. The full length of VP1 capsid comprises the internal N-terminal, Hinge, shell (S) and protruding (P) domains. P domain from 225 to 520 forms P1- P2-P1 structure. Moreover, P domain has a receptor binding region which recognizes human histo-blood group antigens (HBGAs). P domain expressed in bacteria can spontaneously form a P dimer as well as a P particle aggregated by 12 P dimers. P particle displays an increased binding activity to HBGAs higher than virus-like particle (VLP) formed by the full-length capsid. For norovirus vaccine development, we consider P domain as a good candidate.

Stability

The Recombinant Norovirus Group-1 although stable at 4°C for 1 week, should be stored

Caution: Product has not been fully validated for medical applications. For research use only.

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below -18°C .

Background

The Recombinant Norovirus Group-1 Capsid, E.Coli derived, is a positive sense RNA virus with 7.5kb nucleotides, encoding a major structural protein VP1 with 58~60kDa and a VP2 protein. The full length of VP1 capsid protein is derived from the group 1 Norwalk virus. The protein is fused to a 6 His tag at N-terminal and purified by chromatography techniques.

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