9051 Mira Mesa Blvd, #910094
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Tel: 760-390-3989

Norovirus Group-1

Norovirus Group-1 Capsid Recombinant
VAG0404

Product Overview

Name	Norovirus Group-1
Description	
Norovirus Group-1 Capsid Recombinant	
Accession (Primary)	Q83884

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 Nororvirus 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 dime as well as a P particle aggregated by 12 P dimmers. 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.

Source

Escherichia Coli.

Physical Appearance

Sterile Filtered clear solution.

Formulation

PBS, 25Mm K 2 CO 3 and 25% glycerol.

Stability

The Recombinant Norovirus Group-1 although stable at 4°C for 1 week, should be stored below -18°C. Please

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prevent freeze thaw cycles .

Purity

Protein is >95% pure as determined by 10% PAGE (coomassie staining).

Precautions

Norovirus Group-1 is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q83884)