

Recombinant Rotavirus A Intermediate capsid protein VP6(VP6)

Catalog No: #AP71009

Package Size: #AP71009-1 20ug #AP71009-2 100ug #AP71009-3 1mg

Description

Product Name	Recombinant Rotavirus A Intermediate capsid protein VP6(VP6)
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1-397aaSequence Info:Full Length
Accession No.	P04509
Calculated MW	48.8 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	MDVLYSLSKTLKDARDKIVEGTLYSNVSDLIQQFNQMIITMNGNEFQTGGIGNLPIRNWNFDFGLLGTTLLNLDA NYVETARNTIDYFVDFVDNVCMDVMRESQRNGIAPQSDSLIKLSGIKFKRINFDNSSEYIENWNLQNRQRRT GFTFHKPNIFPYSASFTLNRSQPAHDNLMGTMWLNAGSEIQVAGFDYSCAINAPANTQQFEHIVQLRRVLT TITLLPDAERFSFPRVITSADGATTWYFNPVILRPNNVEIEFLLNGQIINTYQARFGTIIARNFDTIRLSFQLMRPP NMTPAVALFPNAQPFHHATVGLTRLIESAVCESVLADASETMLANVTSVRQEYAIIPVGPVFPFGMNWTDLI TNYSPSREDNLQRVFTVASIRSMVLK
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

Intermediate capsid protein that self assembles to form an icosahedral capsid with a T=13 symmetry, which consists of 230 trimers of VP6, with channels at each of its five-fold vertices. This capsid constitutes the middle concentric layer of the viral mature particle. The innermost VP2 capsid and the intermediate VP6 capsid remain intact following cell entry to protect the dsRNA from degradation and to prevent unfavorable antiviral responses in the host cell during all the replication cycle of the virus. Nascent transcripts are transcribed within the structural confines of this double-layered particle (DLP) and are extruded through the channels at the five-fold axes. VP6 is required for the transcription activity of the DLP.

References

A zinc ion controls assembly and stability of the major capsid protein of rotavirus. Erk I., Huet J.-C., Duarte M., Duquerroy S., Rey F.A., Cohen J., Lepault J.J. Virol. 77:3595-3601(2003) Research Topic:Others

Note: This product is for in vitro research use only and is not intended for use in humans or animals.