Intermediate capsid protein VP6, Rotavirus A (sf9, His, Myc)

Cat. No.:	HY-P72302
Synonyms:	Intermediate capsid protein VP6
Species:	Virus
Source:	Sf9 insect cells
Accession:	P03530 (M1-K397)
Gene ID:	/
Molecular Weight:	Approximately 48.8kDa

PROPERTIES

AA Sequence	M E V L Y S L S K T L K D A R D K I V E G T L Y S N V S D L I Q Q F N Q M I V T M N G N D F Q T G G I G N L P V R N W T F D F G L L G T T L L N L D A N Y V E N A R T I I E Y F I D F I D N V C M D E M A R E S Q R N G V A P Q S E A L R K L A G I K F K R I N F D N S S E Y I E N W N L Q N R R Q R T G F V F H K P N I F P Y S A S F T L N R S Q P M H D N L M G T M W L N A G S E I Q V A G F D Y S C A I N A P A N I Q Q F E H I V Q L R R A L T T A T I T L L P D A E R F S F P R V I N S A D G A T T W F F N P V I L R P N N V E V E F L L N G Q I I N T Y Q A R F G T I I A R N F D A I R L L F Q L M R P P N M T P A V N A L F P Q A Q P F Q H H A T V G L T L R I E S A V C E S V L A D A N E T L L A N V T A V R Q E Y A I P V G P V F P P G M N W T E L I T N Y S P S R E D N L Q R V F T V A S I R S M L I K
Appearance	Lyophilized powder.
Formulation	Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	The intermediate capsid protein VP6 functions as a self-assembling component, forming an icosahedral capsid with T=13 symmetry. This capsid, comprising 230 VP6 trimers, constitutes the middle concentric layer of the viral mature particle. During the virus replication cycle, VP6, along with the innermost VP2 capsid, remains intact following cell entry, providing

protection to the dsRNA from degradation and preventing unfavorable antiviral responses in the host cell. The VP6 capsid plays a crucial role in the transcription activity of the double-layered particle (DLP), where nascent transcripts are transcribed within its structural confines and extruded through the channels at the five-fold axes. VP6 interacts with the inner capsid protein VP2, the outer capsid glycoprotein VP7, and the outer capsid protein VP5*, forming essential interactions for the overall functionality of the viral capsid.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA