

Outer capsid protein VP4 Recombinant Protein

Recombinant Rotavirus A Outer capsid protein VP4, partial

CATALOG # AAA115935	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
-------------------------------	---

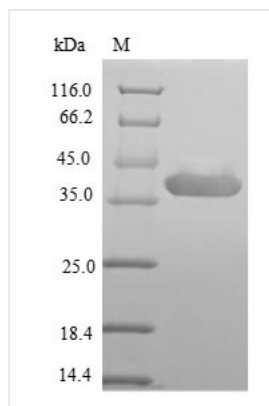
PRODUCT SYNONYMS

Outer capsid protein VP4; Recombinant Rotavirus A Outer capsid protein VP4; partial; Outer capsid protein VP4 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	247-479aa; Partial
Sequence	AQVSEDIIS KTS LWKEMQY NRDIIRFKF NNSIIKLGGL GYKWSEISFK AANYQYNYLR DGEQVTAHTT CSVNGVNNFS YNGGLLP THF SISRYEVIKE NSYVYVDYWD DSQAFRNMVY VRSLAANLNS VKCSGGNYNF QMPVGAWPVM SGGAVSLHFA GVTLS TQFTD FVSLNSLRFR FSLTVEEPPF SILRTRVSG L YGLPASNPNS GHEY YEIAGR FSLISLVPSN DDY
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for Outer capsid protein VP4 recombinant protein

Spike-forming protein that mediates virion attachment to the host epithelial cell receptors and plays a major role in cell penetration, determination of host range restriction and virulence. Rotavirus entry into the host cell probably involves multiple sequential contacts between the outer capsid proteins VP4 and VP7, and the cell receptors. According to the considered strain, VP4 ses to essentially target sialic acid and/or the integrin heterodimer ITGA2/ITGB1. Outer capsid protein VP5*: forms the spike "foot" and "body". Acts as a membrane permeabilization protein that mediates release of viral particles from endosomal compartments into the cytoplasm. In integrin-dependent strains, VP5* targets the integrin heterodimer ITGA2/ITGB1 for cell attachment. VP8* forms the head of the spikes. It is the viral haemagglutinin and an important target of neutralizing antibodies. In sialic acid-dependent strains, VP8* binds to host cell sialic acid, most probably a ganglioside, providing the initial contact.

References	Sequence of the fourth gene of human rotaviruses recovered from asymptomatic or symptomatic infections.Gorziglia M., Green K.Y., Nishikawa K., Taniguchi K., Jones R.W., Kapikian A.Z., Chanock R.M.J. Virol. 62:2978-2984(1988) Identification of two independent neutralization domains on the VP4 trypsin cleavage products VP5* and VP8* of human rotavirus ST3.Padilla-Noriega L., Dunn S.J., Lopez S., Greenberg H.B., Arias C.F.Virology 206:148-154(1995) Group A human rotavirus genomics evidence that gene constellations are influenced by viral protein interactions.Heiman E.M., McDonald S.M., Barro M., Taraporewala Z.F., Bar-Magen T., Patton J.T.J. Virol. 82:11106-11116(2008) Conservation of amino acid sequence of VP8 and cleavage region of 84-kDa outer capsid protein among rotaviruses recovered from asymptomatic neonatal infection.Gorziglia M., Hoshino Y., Buckler-White A., Blumentals I., Glass R., Flores J., Kapikian A.Z., Chanock R.M.Proc. Natl. Acad. Sci. U.S.A. 83:7039-7043(1986)
------------	--

NCBI AND UNIPROT INFORMATION

NCBI GI #	226693610
UniProt Accession #	P11200; Q86201; B3SRW7
Molecular Weight	28.3 kDa
NCBI Official Full Name	Outer capsid protein VP4
UniProt Protein Name	Outer capsid protein VP4
UniProt Entry Name	VP4_ROTHT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://www.aaabiotech.com/outer-capsid-protein-vp4-recombinant-protein-e-coli/115935>