



Recombinant Rotavirus A Outer capsid protein VP4, partial

Product Code	CSB-YP320838ROH
Relevance	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 mbrane 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 haggglutinin 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 .
Abbreviation	Recombinant Rotavirus A Outer capsid protein VP4 protein, partial
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.
Uniprot No.	P11200
Product Type	Recombinant Protein
Immunogen Species	Rotavirus A (strain RVA/Human/United Kingdom/ST3/1975/G4P2A[6]) (RV-A) (Rotavirus A (strain St. Thomas 3))
Purity	≥ 90% as determined by SDS-PAGE.
Sequence	AQVSEDIISKTS LWKEMQYNRDIIRFKFNNSIIKLGGLGYKWSEISFKAANYQY NYLRDGEQVTAHTTCSVNGVNNFSYNGGLLPTHFSISR YEVIKENS YVYVDYW DDSQA FRNMVYVRSLAANLNSVKCSGGNYNFQMPVGAWPVMSSGGAVSLHF AGVTLS TQFTDFVSLNSLRFRFSLTVEEPPFSILRTRVSGLYGLPASNPNSGHE YYEIAGRFSLISLVPSNDDY
Research Area	Others
Source	Yeast
Protein Names	Recommended name: Outer capsid protein VP4 Alternative name(s): Hemagglutinin Cleaved into the following 2 chains: 1. Outer capsid protein VP8* 2. Outer capsid protein VP5*
Expression Region	247-479aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

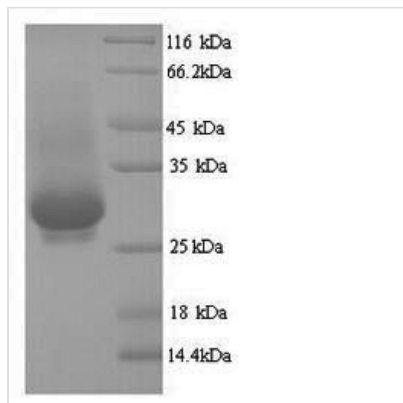


Tag Info N-terminal 6xHis-tagged

Mol. Weight 28.3kDa

Protein Length Partial

Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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