



Recombinant Rotavirus A Non-structural glycoprotein 4, partial

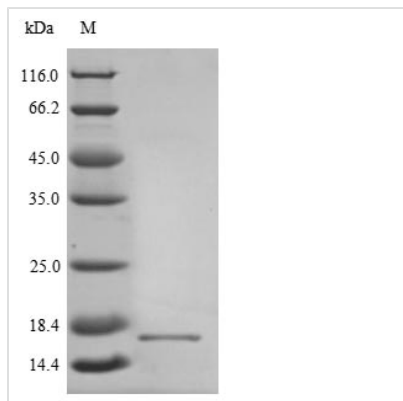
Product Code	CSB-YP366171ROH
Relevance	Involved in virus morphogenesis. Functions as a receptor for the immature double-layered inner capsid particle (ICP) which transiently buds into the lumen of the rough endoplasmic reticulum during viral maturation .Enterotoxin that causes a phospholipase C-dependent elevation of the intracellular calcium concentration in host intestinal mucosa cells. Increased concentration of intracellular calcium disrupts the cytoskeleton and the tight junctions, raising the paracellular permeability. Potentiates chloride ion secretion through a calcium ion-dependent signaling pathway, inducing age-dependent diarrhea. To perform this enterotoxigenic role in vivo, NSP4 is probably released from infected enterocytes in a soluble form capable of diffusing within the intestinal lumen and interacting with the plasma mbrane receptors on neighboring epithelial cells. Possible receptors for NSP4 are alpha-1/beta-1 and alpha-2/beta-1 integrin heterodimers .
Abbreviation	Recombinant Rotavirus A Non-structural glycoprotein 4 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.	Q82035
Product Type	Recombinant Protein
Immunogen Species	Rotavirus A (strain Human/United Kingdom/ST3/1975 G4-P2A[6]-I1-R1-C1-M1-A1-N1-T1-E1-H1) (RV-A) (Rotavirus A (strain St. Thomas 3))
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	PTMKIALKASKCSYKVIKYCVVTIINTLLKLAGYKEQVTTKDEIEQQMDRIVKEM RRQLEMIDKLTTRTIEQIEILLKRIHDNLITRPVNVIDMSMEFNQKNIKTLDEWES RKNPYEPSEVTASM
Research Area	Others
Source	Yeast
Protein Names	Recommended name: Non-structural glycoprotein 4 Short name= NSP4 Alternative name(s): NCVP5 NS28
Expression Region	52-175aa
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	16.6kDa



Protein Length

Cytoplasmic Domain

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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