

Recombinant Rotavirus A NSP4 Protein (52-175 aa), His-SUMO-tagged

Cat. No. NSP4-977R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rotavirus A (isolate RVA/Monkey/South Africa/SA11-H96/1958/G3P5B[2]) (RV-A) (Simian Agent 11 (isolate SI/South Africa/H96/58)) NSP4 Protein (52-175 aa) is produced by E. coli expression system. This protein is fused with a 6xHis-SUMO tag at the N-terminal. Protein Description: Partial.
Species	Rotavirus A
Source	E.coli
ProteinLength	52-175 aa
Description	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.

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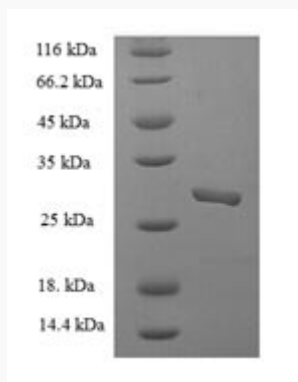
 45-1 Ramsey Road, Shirley, NY 11967, USA

Form	Tris-based buffer, 50% glycerol
Molecular Mass	30.6 kDa
AA Sequence	PTMKIALKTSKCSYKVVKYCIVTIFNTLLKLAGYKEQITTKDEIEKQMDRVVKEMRRQL EMIDKLTTREIEQVELLKRIYDKLTVQTTGEIDMTKEINQKNVRTLEEWESGKNPYEP REVTAAM
Purity	> 90% as determined by SDS-PAGE.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
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 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.
Concentration	A hardcopy of COA with concentration instruction is sent along with the products.
GENE INFORMATION	
UniProt ID	A2T3Q0

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

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