

Recombinant Rotavirus A Non-structural glycoprotein 4(NSP4) ,partial

Catalog No: #AP71207

Package Size: #AP71207-1 20ug #AP71207-2 100ug #AP71207-3 1mg

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

Description

Product Name	Recombinant Rotavirus A Non-structural glycoprotein 4(NSP4) ,partial
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:52-175aaSequence Info:Cytoplasmic Domain
Accession No.	A2T3Q0
Calculated MW	30.6 kDa
Tag Info	N-terminal 6xHis-SUMO-tagged
Target Sequence	PTMKIALKTSKCSYKVVKYCIVTIFNTLLKLAGYKEQITTKDEIEKQMDRVVKEMRRQLEMIDKLTREIEQVELL KRIYDKLTVQTTGEIDMTKEINQKNVRTLEEWESGKNPYEPREVTAAAM
Formulation	Tris-based buffer50% glycerol
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.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

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 .

References

Genome heterogeneity of SA11 rotavirus due to reassortment with 'O' agent.Small C., Barro M., Brown T.L., Patton J.T.Virology
359:415-424(2007)Research Topic:Others

Note: This product is for in vitro research use only and is not intended for use in humans or animals.