

Rotavirus VP7 Recombinant Protein

Rotavirus VP7 protein (His tag)

CATALOG #
AAA224564

PRODUCT SYNONYMS

Rotavirus VP7; Rotavirus VP7 protein (His tag); Glycoprotein VP7 protein; Rotavirus protein; VP7 protein; Outer capsid glycoprotein VP7; Rotavirus VP7 recombinant protein

PRODUCT SPECIFICATIONS

Purity/Purification	≥90% by SDS-PAGE
Form/Format	Supplied lyophilized in 10 mM Tris-HCl, pH 8.0, 1 mM EDTA with 6% Trehalose. Reconstitute with sterile laboratory grade water to a concentration of 0.1 to 1mg/ml. If storing in liquid form, add glycerol @ 5 to 50% final concentration. (50% recommended)
Concentration	Lyophilized, 100ug (varies by lot)
Sequence	Residues:Q NYGINLPITG SMDTAYANST QDNNFLFSTL CLYYPSEAPT QISDTEWKDT LSQLFLTGW PTGSVYFNEY SNVLEFSIDP KLYCDYNVVL IRFVSGEELD ISELADLILN EWLCNPMDIT LYYYQQTGEA NKWISMGSSC TVKVCPLNTQ TLGIGCQTTN TATFETVADS EKLAIDVVD SVNHKLNITS TTCTIRNCNK LGPRENVAII QVGGSNILD IADPTTSPQT ERM MRVNWKK WWQVFYTVVD YINQIVQVMS KRSRSLDSSS FYYRV
Source	E. coli
Species	Human
Tag	His-tag.
Grade	Recombinant
Expression Region	51-326aa
Biohazard	Recombinant protein with His-Tag. Use standard laboratory precautions when handling this material.
Biological Significance	VP7 is a major capsid glycoprotein found in rotavirus. Rotavirus attachment and entry into the host cell probably involves multiple sequential contacts between the outer capsid proteins VP4 and VP7, and the cell receptors. In integrin-dependent strains, VP7 seems to essentially target the integrin heterodimers ITGAX/ITGB2 and ITGA5/ITGB3 at a postbinding stage, once the initial attachment by VP4 has been achieved
Preparation and Storage	Upon receipt store at -20°C to -80°C. Once reconstituted use within 6 months of reconstitution. Avoid repeated freeze thaws of reconstituted product.

ADDITIONAL INFORMATION

Product Categories/Family for Rotavirus VP7 recombinant protein	Infectious Disease
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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.