Non-Structural Protein 5 (NSP5) Rotavirus A Recombinant Protein

PRODUCT OVERVIEW

Product Name	Non-structural protein 5 (NSP5), Recombinant Protein
Full Product Name	Recombinant Rotavirus A Non-structural protein 5
Product Gene Name	NSP5 recombinant protein
Product Synonym Names	Non-structural protein 5; NSP5; NS26
Sequence	MSLSIDVTSL PSISSSIYKN ESSSTTSTLS GKSIGRSEQY ISPDAEAFSK YMLSKSPEDI GPSDSASNDP LTSFSIRSNA VKTNADAGVS MDSSTQSRPS SNVGCDQVDF SFNKGIKMNA NLDSSISIST ISKKEKSKSD HKSRKHYPKI EAESDSDDYV LDDSDSDDGK CKNCKYKRKY FALRMRMKQV AMQLIEDL
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	21,697 Da
Sequence Positions	1-198aa; full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for B2BRG5
Species	Rotavirus A (strain Cow/United States/WC3/1981 G6-P7[5]-I2-R2-C2-M2-A3-N2-T6-E2-H3) (RV-A) (Rotavirus (strain Wistar calf 3))
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for NSP5 recombinant protein	MBS1258170 is a recombinant protein targeting NSP5. Also known as Recombinant Rotavirus A Non-structural protein 5. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of NSP5 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NSP5. It may not necessarily be applicable to this product.

NCBI GI #	226736196
NCBI Accession #	B2BRG5.1
UniProt Primary Accession #	B2BRG5
NCBI Official Full Name	Non-structural protein 5
UniProt Protein Name	Non-structural protein 5

UniProt Synonym Protein Names	NS26
Protein Family	Nitrile-specifier protein
UniProt Gene Name	NSP5
UniProt Synonym Gene Names	NSP5
UniProt Entry Name	NSP5_ROTW3
UniProt Comments for NSP5	Involved in genome replication. Plays a crucial role, together with NSP2, in the formation of virus factories (viroplasms) which are large inclusions in the cytoplasm where core-like replication intermediates are assembled and RNA replication takes place. May regulate NSP2-RNA interactions during genome replication, since NSP5 competes with RNA for the same binding site on the NSP2 octamer. Binds to either ssRNA or dsRNA with similar affinities. Displays ATPase and autokinase activities ().
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