Structural Polyprotein Ross River Virus Recombinant Protein

PRODUCT OVERVIEW

Product Name	Structural polyprotein, Recombinant Protein
Full Product Name	Recombinant Ross river virus Structural polyprotein, partial
Sequence	SVTEHFNVYK ATRPYXXXCA DCGDGYFCYS PVAIEKIRDE ASDGMLKIQV SAQIGLDKAG THAHTKLRYM AGHDVQESKR DSLRVYTSAA CSIHGTMGHF IVAHCPPGDY LKVSFEDADS HVKACKVQYK HNPLPVGREK FVVRPHFGVE LPCTSYQLTT APTDEEIDMH TPPDIPDRTL LSQTAGNVKI TAGGRTIRYN CTWGRDNVGT TSTDKTINAC KIDQCHAAVT SHDKWQFTSP FVPRADQTAR KGKVHVPFPL TNVTCRVPLA RAPDVTYGKK EVTLRLHPDH PTLFSYRSLG AEPHPYEEWV DKFSERIIPV TEEGXEYQWG NNPPVRLWAX LTTEGKPHGW PHEIIQYYY
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	46,660 Da
Sequence Positions	1-359
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 P17517
Species	Ross river virus (strain 213970) (RRV)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Structural polyprotein recombinant protein	MBS1215374 is a recombinant protein targeting Structural polyprotein. Also known as Recombinant Ross river virus Structural polyprotein, partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Structural polyprotein 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 Structural polyprotein. It may not necessarily be applicable to this product.

NCBI GI #	130569
NCBI Accession #	P17517.1
UniProt Primary Accession #	P17517
NCBI Official Full Name	Structural polyprotein
UniProt Protein Name	Structural polyprotein

Protein Family	Structural polyprotein
UniProt Comments for Structural polyprotein	E2 is responsible for viral attachment to target host cell, by binding to the cell receptor. Synthesized as a p62 precursor which is processed by furin at the cell membrane just before virion budding, giving rise to E2-E1 heterodimer. The p62-E1 heterodimer is stable, whereas E2-E1 is unstable and dissociate at low pH. p62 is processed at the last step, presumably to avoid E1 fusion activation before its final export to cell surface. E2 C-terminus contains a transitory transmembrane that would be disrupted by palmitoylation, resulting in reorientation of the C-terminal tail from lumenal to cytoplasmic side. This step is critical since E2 C-terminus is involved in budding by interacting with capsid proteins. This release of E2 C-terminus in cytoplasm occurs lately in protein export, and precludes premature assembly of particles at the endoplasmic reticulum membrane ().
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