

Recombinant ZIKV NS1 Protein, His-tagged

Cat. No. NS1-773Z **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant ZIKV NS1 protein with His tag was expressed in HEK293.
Species	Zika
Source	HEK293
ProteinLength	3423
Description	Plays a role in virus budding by binding to the host cell membrane and packages the viral RNA into a nucleocapsid that forms the core of the mature virus particle. During virus entry, may induce genome penetration into the host cytoplasm after hemifusion induced by the surface proteins. Can migrate to the cell nucleus where it modulates host functions.
Form	Lyophilized
Molecular Mass	42 kDa
AA Sequence	MKNPKKKSGGFRIVNMLKRGVARVSPFGGLKRLPAGLLLGHGPIRMVLAILAFLRFT AIKPSLGLINRWGSVGKKEAMEIHKFKKDLAAMLRIINARKEKKRRGADTSVGIVGLL LTTAMAAEVTRRGSAYYMYLDRNDAGEAISFPTTLGMNKCYYIQIMDLGHMCDATMS YECFMLDEGVPEPDDVDCWCNTTSTWVVYGTCHHKKGEARRSRRAVTLPSHSTRKL QTRSQTWLESREYTKHLIRVENWIFRNPGFALAAAAIAWLLGSSTSQKVIYLVILLIA PAYSIRCIGVSNRDFVEGMSGGTWVDIVLEHGGCVTVMAQDKPTVDIELVTTTVSNM AEVRSYCYEASISDMASDSRCPTQGEAYLDKQSDTQYVCKRTLVDGRWGNGCGLF

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GKGS LVTC AKFAC SKKMTG KSIQ PENLEY RIMLS VHGS QHSG MIVNDT GHETDENR
AKVEIT PNSPRAEATLGGFGSLGLDCEPRTGLDFSDLYLTMNNKHVLVHKEWFHD
IPLPWHAGADTGTPHWNKEALVEFKDAHAKRQTVVVLGSQEGAVHTALAGALEAE
MDGAKGRLSSGHLKCR LKMDKLRLKGVSYS LCTAAFTFTKIPAETLHGTVTVEVQYA
GTDGPCKVPAQMAVDMQTLTPVGR LITANPVITESTENSKMMLELDPPFGDSYIVIG
VGEKKITHHWHRS GSTIGKA FEATVRGAKRMAVLGDTAWDFG SVGGALNSLGKGIH
QIFGA AFKSLFGGMSWFSQILIGTLLMWLGLNTKNGSISLMCLALGGVLIFLSTAVSA
DVGC SVDFS KKETRCGTGVFVYNDVEAWRD RYKYHPDSPRR LAAAVKQAWEDGIC
GISSVSRMENIMWRSVEGELNAILEENG VQLTVVVG SVKNPMWRGPQRLPVPVNEL
PHGWKAWGKSHFVRAAKTNNSFVVDGDTLKECPLKHRAWNSFLVEDHGFGVFHT
SVWLKVREDYSLECDPAVIGTAVKGKEAVHSDLG YWIESEKNDTWRLKRAHLIEMK
TCEWPKSHTLWTDGIEESDLIIPKSLAGPLSHHNTREGYRTQMKG PWHSEELEIRFE
ECPGTKVHVEETCGTRGPSLRSTTASGRVIEEWCCRECTMPPLSFRAKDGCWYGM
EIRPRKEPESNLVRSMVTAGSTDHMDHFS LGVLVILLMVQEG LKKRMTTKIIISTMA
VLVAMILGGFSMSDLAKLAILMGATFAEMNTGGDVAHLALIAAFKVRPALLVSFIFRAN
WTPRESMLLALASCLLQTAISALEGDL MVLINGFALAWLAIRAMVVPRTDNITLAILAA
LTPLARGTLLVAWRAGLATCGGFMLLS LKGKGSVKKNLPFVMALGLTAVRLVDPINV
VGLLLLTRSGKR SWPPSEVLTAVGLICALAGGFAKADIEMAGPMAAVGLLIVSYVVS
GKSVD MYIERAGDITWEKDAEVTGNSPRLDVALDESGDFSLVEDDGPPMREILKV
LMTICGMNPIAIPFAAGAWYVYVKTGKRSGALWDVPAPKEVKKGETTDGVYRVMTR
RLLGSTQVGVGVMQEGVFHTMWHVT KGSALRS GEGRLDPYWGDVKQDLVSYCGP
WKLDAAWDGHSEVQLLAVPPGERARNIQTLP GIFTKDG DIGAVALDYPAGTSGSPI
LDKCGRVIGLYGNGVVIKNGSYVSAITQGRREEETPVECFEPSMLKKKQLTVLDLHP
GAGKTRRVLPEIVREAIKTRLRTVILAPTRVVA AEEMEEALRGLPVRYMTTAVNVTHSG
TEIVDLMCHATFTSRLLQPIRVPNYNLYIMDEAHFTDPSSIAARGYISTRVEMGEAAAI
FMTATPPGTRDAFPDSNSPIMDTEVEVPERAWSSGFDWVTDYSGKT VWFVPSVRN
GNEIAACLTKAGKRVIQLSRKTFETEFQKTKHQE WDFVTTDISEMGANFKADRVID
SRRCLKPVILDGERVILAGPMPVTHASAAQRRGRIGRNPKNKPGDEYLYGGGCAETD
EDHAHWLEARMLLDN IYLQDGLIASLYRPEADKVAAIEGEFKLRTEQRKTFVELMKR
GDLPVWLAYQVASAGITYTDRRWCFDGT TNNTIMEDSVPAEVWTRHGEKRVLKPR

WMDARVCSDDHAALKSFKEFAAGKRGAAFGVMEALGTLPGHMTERFQEIDNLAFL
 MRAETGSRPYKAAAAQLPETLETIMLLGLLGTVSLGIFVLMRNKGIGKMGFGMVTL
 GASAWLMWLSEIEPARIACVLIVFLLLVLIPEPEKQRSPQDNQMAIIMVAVGLLGLI
 TANELGWLERTKSDLSHLMGRREEGATMGFSMDIDLRPASAWAIYAALTTFITPAVQ
 HAVTTSYNNYSLMAMATQAGVLFMGKGMPFYAWDFGVPLLMIGCYSQTLPLTLIV
 AIILLVAHYMYLIPGLQAAAAARAAQKRTAAGIMKNPVVDGIVVTDIDTMTIDPQVEKKM
 GQVLLMAVAVSSAILSRTAWGWGEAGALITAATSTLWEGSPNKYWNSSSTATSLCNIF
 RGSYLAGASLIYTVTRNAGLVKRRGGGTGETLGEKWKARLNQMSALEFYSYKKSGI
 TEVCREEARRALKDGVATGGHAVSRGSAKLRLVERGYLQPYGKVIDLGCGRGG
 WSYYAATIRKVQEVKGYTKGGPGHEEPVLVQSYGWNIVRLKSGVDVFHMAAEPCD
 TLLCDIGESSSSPEVEEARTLRVLSMVGDWLEKRPGAFCIKVLCPYTSTMMETLERL
 QRRYGGGLVRVPLSRNSTHEMYWVSGAKSNTIKSVSTTSQLLLGRMDGPRRPVKY
 EEDVNLGSGTRAVVSCAEAPNMKIIGNRIERIRSEHAETWFFDENHPYRTWAYHGS
 YEAPTQGSASSLINGVVRLLSKPWDVVTGVTGIAMTDTTPYGQQRVFKEKVDTRVP
 DPQEGTRQVMSMVSSWLWKELGKHKRPRVCTKEEFINKVRSNAALGAIFEEKEW
 KTAVEAVNDPRFWALVDKEREHHLRGECQSCVYNMMGKREKKQGEFGKAKGSRAI
 WYMWLGARFLEFEALGFLNEDHWMGRENSGGGVEGLGLQRLGYVLEEMSRIPGG
 RMYADDTAGWDTRISRFDLENEALITNQMEKGHRALALAIKYTYQNKVVKVLRPAE
 KGKTVMDIISRQDQRGSGQVVTYALNTFTNLVVQLIRNMEAEEVLEMQDLWLLRRS
 EKVTNWLQSNGWDRCLKRMAVSGDDCVVKPIDDRFAHALRFLNDMGKVRKDTQEW
 KPSTGWDNWEEVPFCSHHFNKLHLKDGRSIVVPCRHQDELIGRARVSPGAGWSIR
 ETACLAKSQAQMWQLLYFHRRDLRLMANAICSSVPVDWVPTGRTTWSIHGKGEWM
 TTEDMLVVWNRVWIEENDHMEDKTPVTKWTDIPYLGKREDLWCGSLIGHRPRTTW
 AENIKNTVMVRRRIIGDEEKYMDYLSTQVRYLGEEGSTPGVL

Purity

> 98%

Applications

WB; ELISA; FACS; FC

Stability

This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term).

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	After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18 centigrade for future use.
Storage	At -20 centigrade.
Concentration	1 mg/mL
Storage Buffer	PBS (pH 7.4-7.5). Sterile-filtered colorless solution.
Reconstitution	Reconstitute in sterile distilled H ₂ O to no less than 100 µg/mL; dilute reconstituted stock further in other aqueous solutions if needed. Please review COA for lot-specific instructions. Final measurements should be determined by the end-user for optimal performance.

GENE INFORMATION

Gene Name	POLY polypeptide [Zika virus]
Official Symbol	NS1
Synonyms	POLY; polypeptide; polypeptide; capsid protein C; membrane glycoprotein precursor prM; envelope protein E; nonstructural protein NS1; nonstructural protein NS2A; nonstructural protein NS2B; nonstructural protein NS3; nonstructural protein NS4A; nonstructural protein NS4B; RNA-dependent RNA polymerase NS5; anchored capsid protein ancC; protein pr; membrane glycoprotein M; protein 2K
Gene ID	7751225
Protein Refseq	YP_002790881
UniProt ID	Q32ZE1

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