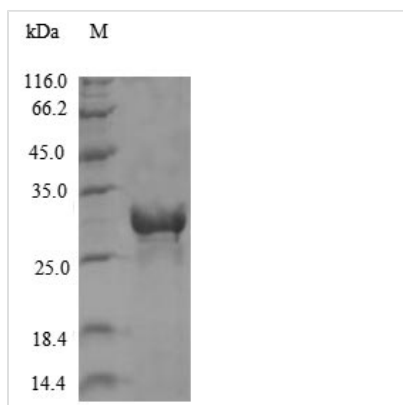




Recombinant Chikungunya virus Non-structural polyprotein?Partial

Product Code	CSB-EP810351CJAT
Abbreviation	Recombinant Chikungunya virus nsp4 protein, partial
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.
Uniprot No.	Q8JUX6
Alias	Polyprotein nsP1234
Product Type	Recombinant Protein
Immunogen Species	Chikungunya virus (strain S27-African prototype) (CHIKV)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	DTVLETDIASFDKSQDDSLALTALMLLEDLGVDHSLDLIEAAFGEISSCHLPTG TRFKFGAMMKSGMFLTLFVNTLLNITIASRVLEDRLTKSACAAFIGDDNIIHGTV SDELMAARCATWMNMEVKIIDAVVSQKAPYFCGGFILHDIVTGTACRVADPLK RLFKLGKPLAAGDEQDEDRRRALADEVVRWQRTGLIDELEKAVYSRYEVQGIS VVVMSMATFASSRSNFEKLRGPVVTLYGGPK
Research Area	others
Source	E.coli
Protein Names	Recommended name: Non-structural polyprotein Alternative name(s): Polyprotein nsP1234 Short name= P1234 Cleaved into the following 5 chains: 1. P123 2. mRNA-capping enzyme nsP1 EC= 3. 2.1.1.- EC= 4. 2.7.7.- Alternative
Expression Region	2228-2474aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	31.1kDa
Protein Length	Partial
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

Amino acids 2228-2474 form the expressed segment for recombinant Chikungunya virus nsp4. This nsp4 protein is theoretically predicted to have a molecular weight of 31.1 kDa. This nsp4 protein is produced using e.coli expression system. Fusion of the N-terminal 6xHis tag into the nsp4 encoding gene fragment was conducted, allowing for easier detection and purification of the nsp4 protein in subsequent stages.

The Chikungunya virus non-structural polyprotein plays a central role in viral replication and host interaction. Its primary function involves processing into individual non-structural proteins that contribute to viral RNA synthesis. In virology, understanding this polyprotein is crucial for elucidating the Chikungunya virus life cycle and developing antiviral strategies. In immunology, studying the polyprotein aids in unraveling host-virus interactions, informing vaccine design. The polyprotein's role in pathogenesis makes it a target in infectious disease research. Investigating the Chikungunya non-structural polyprotein provides insights into viral replication mechanisms, host immune responses, and antiviral approaches, offering potential applications in virology, immunology, and vaccine development.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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