## Product datasheet

**Recombinant Influenza A Influenza A Virus Nucleoprotein (His tag) ab224859**

### Description

<table>
<thead>
<tr>
<th><strong>Product name</strong></th>
<th>Recombinant Influenza A Influenza A Virus Nucleoprotein (His tag)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Purity</strong></td>
<td>&gt; 90 % SDS-PAGE.</td>
</tr>
<tr>
<td><strong>Expression system</strong></td>
<td>Escherichia coli</td>
</tr>
<tr>
<td><strong>Accession</strong></td>
<td>P69291</td>
</tr>
<tr>
<td><strong>Protein length</strong></td>
<td>Full length protein</td>
</tr>
<tr>
<td><strong>Animal free</strong></td>
<td>No</td>
</tr>
<tr>
<td><strong>Nature</strong></td>
<td>Recombinant</td>
</tr>
<tr>
<td><strong>Species</strong></td>
<td>Influenza A</td>
</tr>
</tbody>
</table>

**Sequence**

```
MASQGTKRSYEQMETDGERQNATEIRASVGKMDGIG
RFYQMCTELKLS
DYEGRQLQNSLTVEMVLSAFDERRNRYLEEHPSAGK
DPKKTGGPIYKRV
GGRWMRELVLYDKEERRIWRQANNGDDATRLTHM
MIWHSLNLDTTYOR
TRALVRTGMDPRMCSLMQGSTLPRRSGAAAVKGI
GTMVMELIRMIKRG
INDRNFWRGENERKTRSAYERMCNILKGFQTAQRA
MMDQVRESRNPGN
AEIEDIIFSAALSILRGSVAHKSCPACVYGPAVSSGY
DFEKEGYSLVG
IDPKKLLONSQYSLIRPNPAHKSCLPACVYGPAVSSGY
FEDRLLLSFIRGT
KVSPRPGKLSTRGVQASNENMDNMSSTLELRSRYWA
IRTRSGGNTNQQQR
ASAGQISYQPTFSVORNLPEFKSTVMAAFTGNTEGR
SDMREAIRMMEG
AKPEEVFSRGRGVFELSDEKATNPVPSFDSNEGQSY
FFGDNAEEYDN
```

<table>
<thead>
<tr>
<th><strong>Predicted molecular weight</strong></th>
<th>72 kDa including tags</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Amino acids</strong></td>
<td>1 to 498</td>
</tr>
<tr>
<td><strong>Tags</strong></td>
<td>His tag N-Terminus</td>
</tr>
</tbody>
</table>
**Additional sequence information**  
6xHis-SUMO tag at N-terminus.

**Specifications**

Our [Abpromise guarantee](#) covers the use of **ab224859** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

**Applications**  
Mass Spectrometry  
SDS-PAGE  

**Mass spectrometry**  
LC-MS/MS  

**Form**  
Liquid

**Preparation and Storage**

**Stability and Storage**  
Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.  
Constituents: 50% Glycerol, Tris buffer

**General Info**

**Relevance**  
The nucleoprotein (NP) of Influenza virus encapsulates the negative strand of the viral RNA and is essential for replicative transcription. It may also be involved in other essential functions throughout the virus life cycle. As well as binding ssRNA, NP is able to self associate to form large oligomeric complexes. NP is able to interact with a variety of other macromolecules of both viral and cellular origins. It binds the PB1 and PB2 subunits of the polymerase and the matrix protein M1. "NP has also been shown to interact with at least four cellular polypeptide families: nuclear import receptors of the importin class, filamentous (F) actin, the nuclear export receptor CRM1 and a DEAD box helicase BAT1/UAP56" (Portela et al 2002).

**Cellular localization**  
Host cell nucleus

**Images**
(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) analysis of ab224859 with 5% enrichment gel and 15% separation gel.

Based on the SEQUEST from database of E.coli host and target protein, the LC-MS/MS analysis result of ab224859 could indicate that this peptide derived from E.coli-expressed Influenza A virus (strain A/Beijing/353/1989 H3N2) Nucleoprotein.

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