**Product datasheet**

**Recombinant Flagellin protein ab201366**

**Description**

<table>
<thead>
<tr>
<th>Product name</th>
<th>Recombinant Flagellin protein</th>
</tr>
</thead>
<tbody>
<tr>
<td>Purity</td>
<td>&gt; 95% SDS-PAGE. &gt;95% by HPLC analysis.</td>
</tr>
<tr>
<td>Expression system</td>
<td>Escherichia coli</td>
</tr>
<tr>
<td>Accession</td>
<td>P06179</td>
</tr>
<tr>
<td>Protein length</td>
<td>Full length protein</td>
</tr>
<tr>
<td>Animal free</td>
<td>No</td>
</tr>
<tr>
<td>Nature</td>
<td>Recombinant</td>
</tr>
<tr>
<td>Species</td>
<td>Salmonella enterica</td>
</tr>
</tbody>
</table>

**Sequence**

MAQVINTNSL SLLTQNNLNK SQSALGTAIE RLSSQLRINS AKDDAAGQAI ANRFTANKG LTOASRNAND GISAQOTTEG ALNEINNLQ RVRELAVQSA NSTNSQSDLID SIQAEITQRL NEIDRVSQGQT QFNGVQLAQ DTNLTIQVGA NDGETIDDL KOINSQTLGL DTVNVQKYK VSDTAATVGT YADTTIALDN STFKASATGL GGTDOQDKIDGD LKFDDTGTKY YAKVTVTGGT GKDGYEVSV DTNGEVTLLA GGATSPLTGG LPATATEDVK NVQVANDLT EAAALTAAG VTGTASVVKM SYTDNNGKTI DGLAVKVGD DYYSAQTQKD GSISNNTTGY TADGTSKTA LNKLGGADGK TEVSVIGKTY YAASKAEGHN FKAOPDLAEAA AATTTENPLQ KIDAALAOVD TLRSDDLAVQ NRFNSAITHL GNTVNNLTSA RSRIEDSYA TEVSMRSKAQ ILQAGTSVL AQANQVPQNV LSLLRLEHHH HH

**Predicted molecular weight**

53 kDa including tags

**Tags**

His tag C-Terminus

**Additional sequence information**

Salmonella typhimurium Flagellin. Single non-glycosylated polypeptide chain containing 503 amino acids, with Leu, Glu and 6 × His at C-terminus.

**Specifications**

Our [Abpromise guarantee](#) covers the use of **ab201366** in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications
- SDS-PAGE
- HPLC

Form
- Lyophilised

Preparation and Storage

Stability and Storage
- Shipped at 4°C. Store at -20°C long term. Avoid freeze / thaw cycle.
- pH: 7.40
- Constituent: 100% PBS
- Lyophilized from a 0.2µm filtered solution.

Reconstitution
- Briefly centrifuge the vial prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at -20°C to -70°C. Further dilutions should be made in appropriate buffered solutions.

Relevance
Flagellin (FliC) is a subunit protein that polymerizes (along with other proteins) to form the filaments of bacterial flagella. Assembly of the bacterial flagellum occurs in a precise, temporal order where the basal component (FlgE, FlgK, and FlgL) are assembled inside the bacterial membrane, followed by exportation of the filament cap protein FliD, and secretion of about 20,000 flagellin monomers (FliC) through the channel. FliC monomers are polymerized to form the tail filament. FliC monomers can function as pathogen-associated molecular patterns (PAMPs), and can be detected by host cells through surface-localized toll-like receptor 5 (TLR5) and cytosolic Nod-like receptors (NLRs).

Cellular localization
- Secreted. Bacterial flagellum.

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