

# Recombinant Flagellin protein

**Cat. No.** Flagellin-661    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Flagellin protein was expressed in Escherichia coli.                                                                                                                                                                                                                                                                                                                                                               |
| <b>Species</b>          | bacterial flagellum                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>ProteinLength</b>    | 503                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Description</b>      | Flagellin arranges itself in a hollow cylinder to form the filament in bacterial flagellum. It is the principal substituent of bacterial flagellum, and is present in large amounts on nearly all flagellated bacteria. Mammals often have acquired immune responses (T-cell and antibody responses) to flagellated bacterium and the plant defense mechanisms can be activated by the conserved N-terminal part of flagellin. |
| <b>Form</b>             | Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4.                                                                                                                                                                                                                                                                                                                                                        |
| <b>Molecular Mass</b>   | Approximately 52.7 kDa, a single non-glycosylated polypeptide chain containing 503 amino acids, with Leu, Glu and 6 × His at C-terminus.                                                                                                                                                                                                                                                                                       |
| <b>AA Sequence</b>      | MAQVINTNSLSLLTQNNLNKSQSALGTAIERLSSGLRINSAKDDAAGQAIANRFTANIK<br>GLTQASRNANDGISIAQTTEGALNEINNNLQRVRELAVQSANSTNSQSDLDLSIQAEIT<br>QRLNEIDRVSGQTQFNGVKVLAQDNTLTIQVGANDGETIDIDLKQINSQTLGLDTLNV<br>QQKYKVSDDTAATVTGYADTTIALDNSTFKASATGLGGTDQKIDGDLKFDDTTGKYA<br>KVTVTGGTGKDGYYEVSVDKTNGEVTLAGGATSPLTGGLPATATEDVKNVQVANAD<br>LTEAKAALTAAGVTGTASVVKMSYTDNNGKTIDGGLAVKVGDDYYSATQNKGDSISI                                                 |

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NTTKYTADDGTSKTALNKLGGADGKTEVVSIGGKTYAASKAEGHNFKAQPDLAEEA  
 ATTTENPLQKIDAALAQVDTLRSDLGAVQNRFNNSAITNLGNTVNNLTSARSRIEDSDY  
 ATEVSNMSRAQILQQAGTSVLAQANQVPQNVLSLLRLEHHHHHH

**Endotoxin** Less than 1 EU/g of rFlagellin, His as determined by LAL method.

**Purity** >95% by SDS-PAGE and HPLC analysis.

**Storage** Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.

**Reconstitution** We recommend that this vial be briefly centrifuged 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 centigrade. Further dilutions should be made in appropriate buffered solutions.

## GENE INFORMATION

**Gene Name** Flagellin

**Official Symbol** Flagellin

**Gene ID** 1253480

**Protein Refseq** NP\_460912.1

**UniProt ID** P06179

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