

Recombinant *B. burgdorferi* Flagellin Protein, MBP-tagged

Cat. No. Flagellin-14B **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant <i>Borrelia burgdorferi</i> Flagellin protein (NCBI accession number ZP_03087263.1) produced in <i>E. coli</i> . Protein contains a MBP-tag and is visible on SDS-PAGE at 76.3 kDa Flagellin-MBP (33.9 kDa for Flagellin and 42.4 kDa for MBP)
Species	<i>Borrelia Burgdorferi</i>
Source	<i>E.coli</i>
Description	Flagellin is encoded by the spirochete <i>B. burgdorferi</i> , which is carried by Ixodes ticks. Strain ZS7 was isolated from Ixodes ricinus ticks collected by flagging in the Freiburg, Germany area in the 1980s. The flagella of <i>B. burgdorferi</i> are different from those of other spirochaetes in that they are not surrounded by an outer sheath layer but are comprised of a single flagellin protein. Unlike other bacterial flagella, those of the spirochaetes are situated within the periplasm and are referred to as periplasmic flagella. Studies comparing aflagellate <i>Borrelia</i> to flagellated indicate that the flagella have a role in the invasion of human tissue.
Form	Liquid, 0.2 µm filter sterilised.
Molecular Mass	76.3 kDa for Flagellin-MBP (33.9 kDa for Flagellin and 42.4 kDa for MBP)
Purity	> 90%
Storage	Short term: +2 to +8 centigrade Long Term: -80 centigrade

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Can be frozen, but avoid multiple freeze/thaw cycles

Concentration 1.0 mg/mL by UV absorbance at 280 nm

Storage Buffer In 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 and 0.01% (w/v) Sodium Azide.

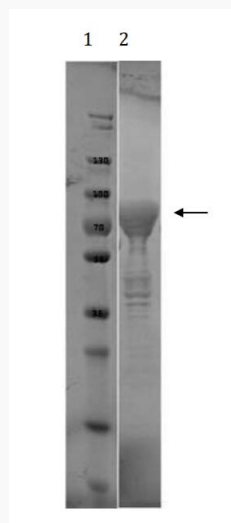
GENE INFORMATION

Official Symbol [Flagellin](#)

Synonyms flagellin

Protein Refseq [ZP_03087263](#)

**SDS-PAGE of
Flagellin protein.**



Lane 1: Molecular Weight Marker.

Lane 2: Flagellin protein.

Load: 10 µL at 1:6 dilution.

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Predicted/Observed size: 76.3 kDa fusion protein (33.9 kDa for Flagellin, 42.4 kDa for MBP alone).