

## Recombinant *Borrelia Afzelii* BAOSPA protein, His-tagged

### SPECIFICATION

<b>Cat.No.</b>	BAOSPA-3B
<b>Species</b>	<i>Borrelia Afzelii</i>
<b>Product Name</b>	Recombinant <i>Borrelia Afzelii</i> BAOSPA protein, His-tagged
<b>Product Overview</b>	Recombinant <i>Borrelia Afzelii</i> Outer Surface Protein A produced in <i>E.coli</i> is a non-glycosylated, polypeptide chain having a calculated molecular mass of 29,074kDa. <i>Borrelia Afzelii</i> OspA is expressed with a -6x His tag at N-terminus and purified by proprietary chromatographic techniques.
<b>Description</b>	<i>Borrelia</i> belongs to a genus of bacteria of the spirochete phylum. <i>Borrelia</i> causes borreliosis, which is a zoonotic, vector-borne disease transmitted mainly by ticks and some by lice, depending on the species. Of the 36 known species of <i>Borrelia</i> , 12 are distinguished to cause Lyme disease or borreliosis and are transmitted by ticks. The main <i>Borrelia</i> species causing Lyme disease are <i>Borrelia burgdorferi</i> , <i>Borrelia afzelii</i> , and <i>Borrelia garinii</i> . The <i>Borrelia</i> genus members have a linear chromosome which is about 900 kbp in length as well as an excess of both linear and circular plasmids in the 5-220 kbp size range. The plasmids are atypical, as compared to most bacterial plasmids, since they contain many paralogous sequences, a large number of pseudogenes and, in some cases, essential genes. Moreover, a number of the plasmids have features suggesting that they are prophages.
<b>Source</b>	<i>E. coli</i>
<b>Tag</b>	His
<b>Form</b>	Sterile Filtered clear solution. <i>Borrelia Afzelii</i> OspA is supplied in 20mM HEPES buffer pH-7.6, 250mM NaCl and 20% glycerol.
<b>Molecular Mass</b>	29.074kDa
<b>Purity</b>	Greater than 80.0% as determined by SDS-PAGE.
<b>Applications</b>	Western blot with Lyme positive plasma.
<b>Usage</b>	The products are furnished for LABORATORY RESEARCH USE ONLY. The product

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may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Avoid multiple freeze-thaw cycles.

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**Shipping**

Ice Packs

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