

Recombinant *Borrelia Burgdorferi* bmpA protein, His-tagged

Cat. No. bmpA-6B Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant *Borrelia Burgdorferi* Basic Membrane Protein A produced in E.coli is a non-glycosylated, polypeptide chain having a calculated molecular mass of 36,239kDa. *Borrelia BmpA* is expressed with a -6x His tag at N-terminus and purified by proprietary chromatographic techniques.

Species *Borrelia Burgdorferi*

Source E.coli

Description *Borrelia* belongs to a genus of bacteria of the spirochete phylum. *Borrelia* 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 *Borrelia*, 12 are distinguished to cause Lyme disease or borreliosis and are transmitted by ticks. The main *Borrelia* species causing Lyme disease are *Borrelia burgdorferi*, *Borrelia afzelii*, and *Borrelia garinii*. The *Borrelia* 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.

Form Sterile Filtered clear solution. *Borrelia BmpA* (1.3mg/1ml) is supplied in 20mM HEPES buffer pH-8.0, 6M Urea and 200mM NaCl.

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Molecular Mass	36.239kDa
Purity	Greater than 80.0% as determined by SDS-PAGE.
Applications	Western blot with Lyme positive plasma.
Usage	The products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.
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.
Shipping	Ice Packs

GENE INFORMATION

Gene Name	bmpA basic membrane protein A [Borrelia burgdorferi B31]
Official Symbol	bmpA
Synonyms	bmpA; basic membrane protein A
Gene ID	1195220
Protein Refseq	NP_212517.1
UniProt ID	Q45010

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