

Recombinant *Borrelia Burgdorferi* ospA protein, His-tagged

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

SPECIFICATION

Product Overview	Recombinant <i>Borrelia Burgdorferi</i> OspA produced in <i>E.coli</i> is a non-glycosylated, full-length polypeptide chain having a calculated molecular mass of 28,577kDa. <i>Borrelia</i> OspA is expressed with a -6x His tag at N-terminus and purified by proprietary chromatographic techniques.
Species	<i>Borrelia Burgdorferi</i>
Source	<i>E.coli</i>
Description	<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.
Form	Sterile Filtered clear solution. <i>Borrelia</i> OspA (1mg/ml) is supplied in 20mM HEPES buffer pH-8.0, 200mM NaCl and 20% glycerol.

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Molecular Mass	28.577kDa
Purity	Greater than 80.0% as determined by SDS-PAGE.
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	ospA outer surface protein A [Borrelia burgdorferi B31]
Official Symbol	ospA
Synonyms	ospA; outer surface protein A
Gene ID	1194357
Protein Refseq	NP_045688.1
UniProt ID	P0CL66

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