Recombinant Borrelia Burgdorferi ospA protein, His-tagged

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

SPECIFICATION

Product Overview	Recombinant Borrelia Burgdorferi OspA produced in E.coli is a non-glycosylated, full-length polypeptide chain having a calculated molecular mass of 28,577kDa. Borrelia OspA 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 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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