



# Recombinant *B. burgdorferi* OspA [His] (DAG575)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Product Overview</b>	Recombinant <i>Borrelia burgdorferi</i> Osp-A, contains multiple copies of the Osp-A sequence, and contains a 6-HIS epitope tag. Total molecular weight is 85 kDa. It was expressed in <i>E. coli</i> . Reacts with human <i>Borrelia burgdorferi</i> positive serum.
<b>Species</b>	<i>B. burgdorferi</i>
<b>Purity</b>	> 95% pure (SDS-PAGE)
<b>Conjugate</b>	His
<b>Applications</b>	Specific methodologies have not been tested using this product.
<b>Molecular Weight</b>	85kDa
<b>Format</b>	Purified, Liquid
<b>Concentration</b>	1 mg/ml (Bradford method)
<b>Buffer</b>	20mM Tris-HCl, pH 7.5 containing 10mM beta-mercaptoethanol
<b>Preservative</b>	None
<b>Storage</b>	2-8°C short term, -20°C long term

## BACKGROUND

<b>Introduction</b>	<i>Borrelia burgdorferi</i> is a spirochete and the cause of Lyme disease, a tick transmitted illness of humans and animals. <i>B. burgdorferi</i> may persist in humans and animals for months or years following initial infection, despite a robust humoral immune response. <i>B. burgdorferi</i> resembles
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other spirochetes in that it is a highly specialized, motile, two-membrane, spiral shaped bacteria which lives primarily as an extracellular pathogen. *B. burgdorferi* has an unusual genome compared with other eubacteria which includes a linear chromosome approximately one megabase in size and numerous linear and circular plasmids.

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**Keywords**

*B burgdorferi*; Lyme disease; Osp-A; Spirochaetaceae; *Borrelia*

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