

# Recombinant *Borrelia Burgdorferi* dbpA protein, His-tagged

Cat. No. dbpA-7B Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant <i>Borrelia Burgdorferi</i> Decorin Binding Protein A produced in <i>E.coli</i> is a non-glycosylated, polypeptide chain having a calculated molecular mass of 19,916kDa. <i>Borrelia</i> DbpA is expressed with a -6x His tag at N-terminus and purified by proprietary chromatographic techniques.
<b>Species</b>	<i>Borrelia Burgdorferi</i>
<b>Source</b>	<i>E.coli</i>
<b>Description</b>	<p><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.</p>
<b>Form</b>	Sterile Filtered clear solution. <i>Borrelia</i> DbpA (0.91mg/1ml) is supplied in 20mM HEPES buffer pH-8.0 and 20% glycerol.

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<b>Molecular Mass</b>	19.916kDa
<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 may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.
<b>Stability</b>	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.
<b>Shipping</b>	Ice Packs

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">dbpA decorin binding protein A [ Borrelia burgdorferi 297 ]</a>
<b>Official Symbol</b>	<a href="#">dbpA</a>
<b>Synonyms</b>	dbpA; decorin binding protein A
<b>Gene ID</b>	<a href="#">8319341</a>
<b>Protein Refseq</b>	<a href="#">YP_003110629.1</a>
<b>UniProt ID</b>	<a href="#">C6C2R7</a>

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