

Recombinant *Borrelia Burgdorferi* dbpB protein, His-tagged

Cat. No. dbpB-8B Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant <i>Borrelia Burgdorferi</i> Decorin Binding Protein B produced in <i>E.coli</i> is a non-glycosylated, polypeptide chain having a calculated molecular mass of 19,353kDa. <i>Borrelia</i> DbpB 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> DbpB (1.11mg/1ml) is supplied in 16mM HEPES buffer pH-8.0, 300mM NaCl and 20% glycerol.

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Molecular Mass	19.353kDa
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	dbpB decorin binding protein B [Borrelia burgdorferi 297]
Official Symbol	dbpB
Synonyms	dbpB; decorin binding protein B
Gene ID	8319342
Protein Refseq	YP_003110630.1
UniProt ID	C6C2R8

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