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Borrelia p41, Sf9

Catalog #:BOPS-009

For research use only.

Description: Recombinant Borrelia Burgdorferi p41 produced in SF9 is a glycosylated, polypeptide chain having a calculated molecular mass of 36,578 Dalton. Borrelia p41 is expressed with a -6x His tag at N-terminus and purified by proprietary chromatographic techniques.

Source: Sf9 insect cells.

Physical Appearance: Sterile Filtered clear solution.

Purity: Greater than 80.0% as determined by SDS-PAGE.

Formulation:

Borrelia p41 (1.01mg/1ml) is supplied in 20mM HEPES buffer pH-7.5, 0.01mM EDTA and 0.02% SDS.

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.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drµgs, agricultural or pesticidal products, food additives or household chemicals.

Applications:

Western blot with Lyme positive plasma.

Introduction:

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 sµggesting that they are prophages.

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