

Recombinant *B. burgdorferi* P27 Protein, MBP-tagged

Cat. No. P27-10B **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant <i>Borrelia burgdorferi</i> Surface Lipoprotein P27 protein produced in <i>E. coli</i> . Protein contains a MBP-tag and is visible on SDS-PAGE at 73.3 kDa for P27-MBP (30.9 kDa for P27 and 42.4 kDa for MBP).
Species	<i>Borrelia burgdorferi</i> B31
Source	<i>E. coli</i>
Description	Surface Lipoprotein P27 is encoded by the spirochete <i>B. burgdorferi</i> , which is carried by Ixodes ticks. Strain B31 is the type strain (ATCC 35210) for this organism and was derived by limited dilutional cloning from the original Lyme-disease tick isolate obtained by A. Barbour. Spirochetal outer surface proteins (Osps) play a major role in both protection from and pathogenesis of Lyme disease. All Osps (OspA to OspF and P27) have been shown to be lipoproteins, containing hydrophobic N-terminal domains and putative cleavage sites (Leu-X-Y-Z-Cys) thought to be recognized by a lipoprotein signal peptidase. The p27 gene is located on a linear plasmid of a size of approximately 55 kb and expressed as a basic protein of 248 amino acids with a typical prokaryotic leader sequence of 17 amino acid residues at the N-terminus of the proposed translation product, as confirmed by Northern and Western blot analysis).
Form	Liquid, 0.2 µm filter sterilised.
Molecular Mass	73.3 kDa for P27-MBP (30.9 kDa for P27 and 42.4 kDa for MBP)

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Purity	> 90%
Storage	Short term: +2 to +8 centigrade Long Term: -80 centigrade Can be frozen, but avoid multiple freeze/thaw cycles
Concentration	1.0 mg/mL by UV absorbance at 280 nm
Storage Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 and 0.01% (w/v) Sodium Azide.
GENE INFORMATION	
Official Symbol	P27
Synonyms	P27

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