

Recombinant S.Pyogenes arcA Protein, His-tagged

Cat. No. arcA-17S **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Streptococcus Pyogenes Arginine Deiminase produced in E.coli is a non-glycosylated, polypeptide chain having a calculated molecular mass of 47,829 Dalton. S.Pyogenes arcA is expressed with a 10xHis tag at N-terminus and purified by proprietary chromatographic techniques.
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Species	S.pyogenes
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Source	E.coli
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Description	Streptococcus pyogenes is the cause of many significant human diseases, ranging from mild superficial skin infections to life-threatening systemic diseases. Infections usually begin in the throat or skin. The most conspicuous sign is a strawberry-like rash. Instances of mild S. pyogenes infections include pharyngitis (strep throat) and localized skin infection (impetigo). The invasion of S. pyogenes and its multiplication in the fascia can lead to necrotizing fasciitis, a life-threatening condition requiring surgery. Throat infections linked with the release of certain toxins lead to scarlet fever. Other toxigenic S. pyogenes infections may lead to potentially life-threatening streptococcal toxic shock syndrome. S. pyogenes may also cause disease in the form of post-infectious "nonpyogenic" (not associated with local bacterial multiplication and pus formation) syndromes. These autoimmune-mediated complications develop from a small percentage of infections and comprise rheumatic fever and acute post infectious glomerulonephritis. Acute glomerulonephritis (inflammation of the renal glomerulus) can arise from streptococcal pharyngitis or skin infection.
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Form	Sterile Filtered clear solution.
Molecular Mass	47.829 KDa
Purity	Greater than 80.0% as determined by SDS-PAGE.
Applications	IMMUNOLOGICAL FUNCTIONS 1. Binds IgG- and IgM- and IgA-type human antibodies. 2. Immunodot test with positive/negative sera panels.
Storage	Store at 4 centigrade if entire vial will be used within 2-4 weeks. Store, frozen at -20 centigrade for longer periods of time. Avoid multiple freeze-thaw cycles.
Storage Buffer	20mM HEPES buffer pH-7.6, 250mM NaCl and 20% glycerol.

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