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OmpA S.Enteritidis

Salmonella Enteritidis Outer Membrane Protein-A Recombinant
VAG0409

Product Overview

Name	OmpA S.Enteritidis

Description

Salmonella Enteritidis Outer Membrane Protein-A Recombinant

Synonyms

Outer Membrane Protein-A, OmpA.

Introduction

The OmpA protein is one of the main outer-membrane proteins of a large array of Gram-negative bacteria such as A.salmonicida, Shigella dysenteriae and E.coli.OmpA′s major physiological functions include maintenance of the structural integrity and morphology of the cells and porin activity, as well as a role in conjugation and bacteriophage binding.Achromogenic atypical Aeromonas salmonicida is the causative agent of goldfish ulcer disease.Virulence of this bacterium is associated with the production of a paracrystalline outer membrane A-layer protein.The species specific structural gene for the monomeric form of A-protein was cloned into a pET-3d plasmid in order to express and produce a recombinant form of the protein in E.coli BL21(DE3). The induced protein was isolated from inclusion bodies by a simple solubilization-renaturation procedure and purified by ion exchange chromatography on Q-Sepharose to over 95% pure monomeric protein.Recombinant A-protein was compared by biochemical, immunological and molecular methods with the A-protein isolated from atypical A.salmonicida bacterial cells by the glycine and the membrane extraction methods.

Source

Escherichia Coli.

Physical Appearance

Sterile Filtered clear solution.

Formulation

PBS and 25MmM Arginine.

Stability

OmpA S.Enteritidis Recombinant although stable at 4°C for 1 week, should be stored below -18°C. Please prevent freeze thaw cycles.

Purity

Protein is >95% pure as determined by 10% PAGE (coomassie staining).

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Applications

Immunoassay. Outer membrane protein A (ompA) of S. Enteritidis is a protein directly exposing to outsides of this organism, In hens, the production of antibodies against outer membrane protein A (ompA) during the infection has been demonstrated by inoculating both the complete bacterium and expressed protein produced from ompA DNA vaccine. Vaccination by ompA protein to hens is a poteintail tool to control S. enteritidis contaminated eggs into market, and prevent human foodborne disease from eggs.

Precautions

OmpA S.Enteritidis is for research use only and not for use in diagnostic or therapeutic procedures.