

Bacterial Outer Membrane Protein-A Active Protein | OmpA active protein

Recombinant Bacterial Outer Membrane Protein-A

CATALOG #
AAA38518

HOST
E Coli

PRODUCT SYNONYMS

Bacterial Outer Membrane Protein-A; Recombinant Bacterial Outer Membrane Protein-A; OmpA; Outer Membrane Protein-A Bacterial Recombinant; Outer Membrane Protein-A; OmpA active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 98.0% as determined by: (a) Analysis by SEC-HPLC. (b) Analysis by SDS-PAGE.
Form/Format	Sterile Filtered White lyophilized (freeze-dried) powder.
Sequence	mdvvispndn tfvttslasv tkqpvlfdst aqqnltlnfs evgdlknngf ivleiqgegq fndaeirqwl sngfwrrpft gllvnpndhg nfansgeynd vrkffkiisd gtqltivhti dsngkrlrla lasdveetin fadaevelkl nlanqafkl sgsqgtvalt agalwnasyt adpvaatkplf klglkfqlsl tnagkatalv segflknig danisatdfa itnvtntqi qrdkvnltit gdvsafkkda ngnlvnkaga sigwkaaadg qsatavlgag nmaggvqnal aafgtylvaa dntvvpavn fnvkaeiqgd sqatynyfkd eladlfiltr dgmkfdtitt gttsanlihi rdvsnilpte ggkifvtite yadhaangrg egtvlvrka lsvtlpsgga vtlkpadvaa dvgasitagr qarlvfevet nqgevavkks naegydiqng trgtaplvd f tl
Sequence Length	348
Solubility	It is recommended to reconstitute the lyophilized OmpA in sterile 0.4% NaHCO ₃ .
Biological Activity	The interaction of bacterial and recombinant A-layer protein with murine macrophages was directed at determining the effect of A-protein on intracellular events that occur in primed macrophages. This was accomplished by measuring the cytotoxic product produced by peritoneal macrophages when exposed to A-protein coated latex beads. Thioglycolate elicited macrophages exhibited a low level of activation (18% cytotoxicity) that was significantly increased (48% cytotoxicity) in the presence of latex beads. Coating of the latex beads with each of the three A-protein products resulted in an increase of cytotoxicity (mean +/- SEM) from 48% to 91%.
Preparation and Storage	Lyophilized Bacterial Outer Membrane Protein-A although stable at room temperature for 3 weeks, should be stored desiccated below -18 degree C. Upon C between 2-7 days and for future use reconstituted OmpA should be stored at 4 below -18 degree C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please avoid freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for OmpA active protein	Description: The recombinant form was found to be undistinguishable from the wild type when examined by SDS-PAGE and gel filtration chromatography yielding a 48 kDa monomeric protein. The immunological similarity of the protein samples was demonstrated by employing polyclonal and monoclonal antibodies in ELISA and Western Blot techniques. All forms of A-protein were found to activate the secretion of tumour necrosis factor alpha from murine macrophage. For ref see Maurice et al. (1999) Protein Expression and Purification 16, 396-404.The OmpA is purified by proprietary chromatographic techniques. 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.
Product Categories/Family for OmpA active protein	Recombinant & Natural Proteins; Recombinant Proteins; Outer Membrane Protein

NCBI AND UNIPROT INFORMATION

NCBI GI #	17861366
Molecular Weight	37,503 Da
NCBI Official Full Name	OmpA
UniProt Protein Name	OmpA
UniProt Gene Name	ompA
UniProt Entry Name	Q8VPL3_PASMD

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-ompA-active-protein/bacterial-outer-membrane-protein-a/38518>