# Undecaprenyl-Diphosphatase (Uppp) (bacA) Staphylococcus Carnosus Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Undecaprenyl-diphosphatase (uppP) (bacA), Recombinant Protein |
| **Full Product Name** | Recombinant Staphylococcus carnosus Undecaprenyl-diphosphatase (uppP) |
| **Product Gene Name** | bacA recombinant protein |
| **Product Synonym Gene Name** | uppP |
| **Product Synonym Names** | Recombinant Undecaprenyl-diphosphatase (uppP); Undecaprenyl-diphosphatase EC= 3.6.1.27; Bacitracin resistance protein Undecaprenyl pyrophosphate phosphatase |
| **Sequence** | MLLLELLKAL ILGIVEGLTE FAPVSSTGHM ILVDDMWLKS PEFLGSQSAF TFKIVIQLGS VFAAAWVFRK RYFEMLYIGK YQPAATETES ADGKIGKRVK PKRLTLWHVL VGMIPAGILG LLFDDVIEKY LFSVPTVMIG LLLGAFYMIF AQKFSERYAH RENIDQITFF QAFVIGLSQA VAMWPGFSRS GSTISTGVLM KMNYKAASDF TFIMAVPIML AASLLSLVKH IGYIHLSHIP FYIIGFLAAF IFGLLSIRLF LNLINRIKLI PFAIYRIILV IFIAILYFGF GIGKGI |
| **Host** | E Coli or Yeast or Baculovirus or Mammalian Cell |
| **Form/Format** | Lyophilized or liquid (Format to be determined during the manufacturing process) |
| **Purity/Purification** | Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific) |
| **Preparation and Storage** | Store at -20 degree C. For extended storage, store at -20 or -80 degree C. |
| **Molecular Weight** | 33,147 Da |
| **Sequence Positions** | 1-296 |
| **Tag Information** | This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information. |
| **Sterility** | Sterile filter available upon request. |
| **Endotoxin** | Low endotoxin available upon request. |
| **Chromosome Location** | NC_012121.1 (335021..335911, complement). Location: country: Germany:Bavaria |
| **3D Structure** | ModBase 3D Structure for B9DK59 |
| **Species** | Staphylococcus carnosus (strain TM300) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for bacA recombinant protein** | MBS1225708 is a recombinant protein targeting bacA. Also known as Recombinant Staphylococcus carnosus Undecaprenyl-diphosphatase (uppP). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of bacA recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for bacA. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 224475822 |
| **NCBI GeneID** | 7549983 |

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| **NCBI Accession #** | YP_002633428.1 |
| **UniProt Primary Accession #** | B9DK59 |
| **UniProt Related Accession #** | B9DK59 |
| **GenBank Nucleotide #** | NC_012121.1 |
| **NCBI Official Full Name** | UDP pyrophosphate phosphatase |
| **NCBI Official Symbol** | bacA |
| **UniProt Protein Name** | Undecaprenyl-diphosphatase |
| **UniProt Synonym Protein Names** | Bacitracin resistance protein; Undecaprenyl pyrophosphate phosphatase |
| **Protein Family** | Bacitracin synthase |
| **UniProt Gene Name** | uppP |
| **UniProt Entry Name** | UPPP_STACT |
| **NCBI Protein Information** | UDP pyrophosphate phosphatase |
| **UniProt Comments for bacA** | Function: Catalyzes the dephosphorylation of undecaprenyl diphosphate (UPP). Confers resistance to bacitracin<br><br>By similarity. HAMAP-Rule MF_01006<br><br>Catalytic activity: Ditrans,octacis-undecaprenyl diphosphate + H2O = ditrans,octacis-undecaprenyl phosphate + phosphate. HAMAP-Rule MF_01006<br><br>Subcellular location: Cell membrane; Multi-pass membrane protein<br><br>By similarity HAMAP-Rule MF_01006.<br><br>Miscellaneous: Bacitracin is thought to be involved in the inhibition of peptidoglycan synthesis by sequestering undecaprenyl diphosphate, thereby reducing the pool of lipid carrier available. HAMAP-Rule MF_01006<br><br>Sequence similarities: Belongs to the UppP family. |
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