# Ribonuclease Ph (rph) Desulfotomaculum Reducens Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Ribonuclease PH (rph), Recombinant Protein |
| **Full Product Name** | Recombinant Desulfotomaculum reducens Ribonuclease PH (rph) |
| **Product Gene Name** | rph recombinant protein |
| **Sequence** | MDRVDGRKQG QIRPVRMTPN YNKYAEGSVL IEVGDTRVIC TATVEERVPP FLKGLGKGWV TAEYSMLPRA TGSRTIREAA RGKLGGRTME IQRLIGRALR SVVNLEALGE RSLTMDCDVI QADGGTRTAS ITGAYVAMIF ALNRLVEQGM LEKIPVSDFI AATSVGIVKG RPVIDLCYAE DSVAEVDMNV VMTGTGRFVE IQGTGEEATF SREEMNQLLD LAAAGIEELN KVQRQVLGDI AAKIG |
| **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 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended. |
| **Molecular Weight** | 26,567 Da |
| **Sequence Positions** | 1-245, Full length protein |
| **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. |
| **3D Structure** | ModBase 3D Structure for A4J7Y7 |
| **Species** | Desulfotomaculum reducens (strain MI-1) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for rph recombinant protein** | MBS1233955 is a recombinant protein targeting rph. Also known as Recombinant Desulfotomaculum reducens Ribonuclease PH (rph). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of rph 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 rph. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 500208782 |
| **NCBI Accession #** | WP_011878987.1 |
| **UniProt Primary Accession #** | A4J7Y7 |
| **GenBank Nucleotide #** | WP_011878987.1 |
| **NCBI Official Full Name** | ribonuclease PH |
| **UniProt Protein Name** | Ribonuclease PH |

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| **UniProt Synonym Protein Names** | tRNA nucleotidyltransferase |
| **Protein Family** | Aminoglycoside 3'-phosphotransferase |
| **UniProt Gene Name** | rph |
| **UniProt Synonym Gene Names** | RNase PH |
| **UniProt Comments for rph** | Phosphorolytic 3'-5' exoribonuclease that plays an important role in tRNA 3'-end maturation. Removes nucleotide residues following the 3'-CCA terminus of tRNAs; can also add nucleotides to the ends of RNA molecules by using nucleoside diphosphates as substrates, but this may not be physiologically important. Probably plays a role in initiation of 16S rRNA degradation (leading to ribosome degradation) during starvation. |
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