# Regulator of Sigma D (rsd) Shigella Dysenteriae Serotype 1 Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Regulator of sigma D (rsd), Recombinant Protein |
| **Full Product Name** | Recombinant Shigella dysenteriae serotype 1 Regulator of sigma D (rsd) |
| **Product Gene Name** | rsd recombinant protein |
| **Product Synonym Gene Name** | rsd |
| **Sequence** | MLNQLDNLTE RVRGSNKLVD RWLHVRKHLL VAYYNLGGIK PGKESYMRLN EKALDDFCQS LVDYLSAGHF SIYERILHKL ESNGQLARAA KIWPQLEANT QQIMDYYDSS LETAIDHDNY LEFQQVLSDI GEALEARFVL EDKLILLVLD AARVKHPA |
| **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** | 18,231 Da |
| **Sequence Positions** | 1-158, Full length |
| **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 Q32AG8 |
| **Species** | Shigella dysenteriae serotype 1 (strain Sd197) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for rsd recombinant protein** | MBS1304999 is a recombinant protein targeting rsd. Also known as Recombinant Shigella dysenteriae serotype 1 Regulator of sigma D (rsd). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of rsd 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 rsd. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 446857040 |
| **NCBI Accession #** | WP_000934296.1 |
| **UniProt Primary Accession #** | Q32AG8 |
| **GenBank Nucleotide #** | WP_000934296.1 |
| **NCBI Official Full Name** | sigma D regulator |
| **UniProt Protein Name** | Regulator of sigma D |

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| **Protein Family** | Regulator of sigma |
| **UniProt Gene Name** | rsd |
| **UniProt Comments for rsd** | Binds RpoD and negatively regulates RpoD-mediated transcription activation by preventing the interaction between the primary sigma factor RpoD with the catalytic core of the RNA polymerase and with promoter DNA. May be involved in replacement of the RNA polymerase sigma subunit from RpoD to RpoS during the transition from exponential growth to the stationary phase. |
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