# D-Tyrosyl-Trna (Tyr) Deacylase (dtd) Salmonella Schwarzengrund Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | D-tyrosyl-tRNA (Tyr) deacylase (dtd), Recombinant Protein |
| **Full Product Name** | Recombinant Salmonella schwarzengrund D-tyrosyl-tRNA (Tyr) deacylase |
| **Product Gene Name** | dtd recombinant protein |
| **Sequence** | MIALIQRVTR ASVTVEDEVT GKIGPGLLVL LGVEKEDDEQ KANRLCERVL GYRIFSDADG KMNLNVQQAG GSVLVVSQFT LAADTERGMR PSFSGGAAPD RAQALYEYFV ERCRQQAINT QTGRFAADMQ VELVNDGPVT FWLQV |
| **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** | 15,925 Da |
| **Sequence Positions** | 1-145, 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 B4TPN8 |
| **Species** | Salmonella schwarzengrund (strain CVM19633) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for dtd recombinant protein** | MBS1252162 is a recombinant protein targeting dtd. Also known as Recombinant Salmonella schwarzengrund D-tyrosyl-tRNA (Tyr) deacylase. Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of dtd 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 dtd. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 446483120 |
| **NCBI Accession #** | WP_000560974.1 |
| **UniProt Primary Accession #** | B4TPN8 |
| **GenBank Nucleotide #** | WP_000560974.1 |
| **NCBI Official Full Name** | D-aminoacyl-tRNA deacylase |
| **UniProt Protein Name** | D-aminoacyl-tRNA deacylase |
| **UniProt Synonym Protein Names** | Gly-tRNA(Ala) deacylase |

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|---|---|
| **Protein Family** | Putative D-aminoacyl-tRNA deacylase-like protein |
| **UniProt Gene Name** | dtd |
| **UniProt Synonym Gene Names** | DTD |
| **UniProt Comments for dtd** | An aminoacyl-tRNA editing enzyme that deacylates mischarged D-aminoacyl-tRNAs. Also deacylates mischarged glycyl-tRNA(Ala), protecting cells against glycine mischarging by AlaRS. Acts via tRNA-based rather than protein-based catalysis; rejects L-amino acids rather than detecting D-amino acids in the active site. By recycling D-aminoacyl-tRNA to D-amino acids and free tRNA molecules, this enzyme counteracts the toxicity associated with the formation of D-aminoacyl-tRNA entities in vivo and helps enforce protein L-homochirality. |
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