D-Tyrosyl-Trna (Tyr) Deacylase (dtd) Clostridium Botulinum Recombinant Protein

PRODUCT OVERVIEW

Product Name	D-tyrosyl-tRNA (Tyr) deacylase (dtd), Recombinant Protein
Full Product Name	Recombinant Clostridium botulinum D-tyrosyl-tRNA (Tyr) deacylase
Product Gene Name	dtd recombinant protein
Sequence	MRAVVQRVTS SSVKVEDNIV GSIGKGLNVL IGISKSDTLE DLKYIRDKVI NLRIFQDEKE KMNLSLLDIK GELLVISQFT LYGDCRKGRR PNFMDAKGGE EAKELYEEFL SLLKESNLKV ETGEFGADMK VEINNDGPVT IILDSSKNF
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	16,704 Da
Sequence Positions	1-149, 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 B2V347
Species	Clostridium botulinum (strain Alaska E43 / Type E3)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for dtd recombinant protein	MBS1251441 is a recombinant protein targeting dtd. Also known as Recombinant Clostridium botulinum 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.

NCBI GI #	501426585
NCBI Accession #	WP_012451255.1
UniProt Primary Accession #	B2V347
GenBank Nucleotide #	WP_012451255.1
NCBI Official Full Name	D-aminoacyl-tRNA deacylase
UniProt Protein Name	D-aminoacyl-tRNA deacylase
UniProt Synonym Protein Names	Gly-tRNA(Ala) deacylase

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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