D-Tyrosyl-Trna (Tyr) Deacylase (dtd) Streptomyces Coelicolor Recombinant Protein

PRODUCT OVERVIEW

Product Name	D-tyrosyl-tRNA (Tyr) deacylase (dtd), Recombinant Protein
Full Product Name	Recombinant Streptomyces coelicolor D-tyrosyl-tRNA (Tyr) deacylase (dtd)
Product Gene Name	dtd recombinant protein
Product Synonym Gene Name	dtd
Sequence	MRAVVQRVDG ASVVVDGETV GAIDGEGLCV LVGVTHDDTK EKAAQLARKL WSVRILHDEK SCSDLDAPLL VISQFTLYGD ARKGRRPTWN AAAPGDVAEP LVDEVVAQLR ALGATVATGR FGAQMRVSLT NDGPFTVLVE V
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	14,968 Da
Sequence Positions	1-141, 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 Q9K4F6
Species	Streptomyces coelicolor (strain BAA-471 / A3(2) / M145)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for dtd recombinant protein	MBS1353905 is a recombinant protein targeting dtd. Also known as Recombinant Streptomyces coelicolor D-tyrosyl-tRNA (Tyr) deacylase (dtd). 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 #	21222579
NCBI GeneID	1099622
NCBI Accession #	NP_628358.1
UniProt Primary Accession #	Q9K4F6
UniProt Related Accession #	Q9K4F6
GenBank Nucleotide #	NC_003888.3

NCBI Official Full Name	D-tyrosyl-tRNA(Tyr) deacylase
NCBI Official Symbol	SCO4182
NCBI Official Synonym Symbols	SCD66.19c
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
NCBI Protein Information	D-tyrosyl-tRNA(Tyr) deacylase
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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