D-Tagatose-1,6-Bisphosphate Aldolase Subunit Kbay (kbaY) Recombinant Protein

PRODUCT OVERVIEW

Product Name	D-tagatose-1,6-bisphosphate aldolase subunit KbaY (kbaY), Recombinant Protein
Full Product Name	Recombinant Escherichia coli O17:K52:H18 D-tagatose-1,6-bisphosphate aldolase subunit KbaY (kbaY)
Product Gene Name	kbaY recombinant protein
Sequence	MSIISTKYLL QDAQANGYAV PAFNIHNAET IQAILEVCSE MRSPVILAGT PGTFKHIALE EIYALCSAYS TTYNMPLALH LDHHESLDDI RRKVHAGVRS AMIDGSHFPF DENVKLVKSV VDFCHSQDCS VEAELGRLGG VEDDMSVDAE SAFLTDPQEA KRFVELTGVD SLAVAIGTAH GLYSKTPKID FQRLAEIREV VDVPLVLHGA SDVPDEFVRR TIELGVTKVN VATELKIAFA GAVKAWFAEN PQGNDPRYYM RVGMDAMKEV VRNKINVCGS ANRISA
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	31,338 Da
Sequence Positions	1-286, 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 B7NDC5
Species	Escherichia coli O17:K52:H18 (strain UMN026 / ExPEC)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for kbaY recombinant protein	MBS1228080 is a recombinant protein targeting kbaY. Also known as Recombinant Escherichia coli O17:K52:H18 D-tagatose-1,6-bisphosphate aldolase subunit KbaY (kbaY). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of kbaY 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 kbaY. It may not necessarily be applicable to this product.

NCBI GI #	445944918
NCBI Accession #	WP_000022773.1
UniProt Primary Accession #	B7NDC5
GenBank Nucleotide #	WP_000022773.1
NCBI Official Full Name	MULTISPECIES: tagatose-1,6-bisphosphate aldolase

UniProt Protein Name	D-tagatose-1,6-bisphosphate aldolase subunit KbaY
UniProt Synonym Protein Names	D-tagatose-bisphosphate aldolase class II
Protein Family	D-tagatose-1,6-bisphosphate aldolase
UniProt Gene Name	kbaY
UniProt Synonym Gene Names	TBPA; TagBP aldolase
UniProt Comments for kbaY	Catalytic subunit of the tagatose-1,6-bisphosphate aldolase KbaYZ, which catalyzes the reversible aldol condensation of dihydroxyacetone phosphate (DHAP or glycerone-phosphate) with glyceraldehyde 3-phosphate (G3P) to produce tagatose 1,6-bisphosphate (TBP). Requires KbaZ subunit for full activity and stability.
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