Peroxyureidoacrylate/Ureidoacrylate Amidohydrolase Rutb (rutB) Shigella Flexneri Recombinant Protein

PRODUCT OVERVIEW

Product Name	Peroxyureidoacrylate/ureidoacrylate amidohydrolase RutB (rutB), Recombinant Protein
Full Product Name	Recombinant Shigella flexneri Peroxyureidoacrylate/ureidoacrylate amidohydrolase RutB (rutB)
Product Gene Name	rutB recombinant protein
Product Synonym Gene Name	rutB
Sequence	MPRPSLCADS GGGMMTTLTA RPEAITFDPQ QSAQIVVDMQ NAYATPGGYL DLAGFDVSTT RPVIANIQTA VTAARAAGML IIWFQNGWDE QYVEAGGPGS PNFHKSNALK TMRKQPQLQG KLLAKGSWDY QLVDELVPQP GDIVLPKPRY SGFFNTPLDS ILRSRGIRHL VFTGIATNVC VESTLRDGFF LEHFGVVLED ATHQAGPEFA QKAALFNIET FFGWVSDVET FCDALSPTSF ARIA
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	26,578 Da
Sequence Positions	1-244, 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 Q83RV3
Species	Shigella flexneri
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for rutB recombinant protein	MBS1327269 is a recombinant protein targeting rutB. Also known as Recombinant Shigella flexneri Peroxyureidoacrylate/ureidoacrylate amidohydrolase RutB (rutB). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of rutB 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 rutB. It may not necessarily be applicable to this product.

NCBI GI #	24112423
NCBI GeneID	1023952
NCBI Accession #	NP_706933.1
UniProt Primary Accession #	Q83RV3

UniProt Secondary Accession #	Q7C249
GenBank Nucleotide #	NC_004337.2
NCBI Official Full Name	synthetase
NCBI Official Symbol	SF1014
UniProt Protein Name	Peroxyureidoacrylate/ureidoacrylate amidohydrolase RutB
UniProt Synonym Protein Names	Ureidoacrylate amidohydrolase
Protein Family	Peroxyureidoacrylate/ureidoacrylate amidohydrolase
UniProt Gene Name	rutB
NCBI Protein Information	synthetase
UniProt Comments for rutB	In vivo, quickly hydrolyzes the ureidoacrylate peracid to avoid toxicity, but can also hydrolyzes ureidoacrylate that is formed spontaneously from ureidoacrylate peracid. One of the products of hydrolysis, carbamate, hydrolyzes spontaneously, thereby releasing one of the pyrimidine rings nitrogen atoms as ammonia and one of its carbons as CO2.
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