Regulator of Ribonuclease-Like Protein 3 (AT5G56260) Arabidopsis Thaliana Recombinant Protein

PRODUCT OVERVIEW

Product Name	Regulator of ribonuclease-like protein 3 (At5g56260), Recombinant Protein
Full Product Name	Recombinant Arabidopsis thaliana Regulator of ribonuclease-like protein 3 (At5g56260)
Product Gene Name	At5g56260 recombinant protein
Product Synonym Gene Name	At5g56260
Sequence	MAAFATAEAC DSNAELISNG DLRALHPIFK IYGQRRCFSG PIVTLKVFED NVLVRNQLET KGEGGVLVID GGGSMRCALV GGNLGQLAQN NGWSGIVVNG CVRDVDEIND CDVGVRALGS NPLKSTKKGH GEKNVPVHIG GTLIRDGEWL YADSDGILIS KTELSV
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	17,567 Da
Sequence Positions	1-166, 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 Q9FH13
Species	Arabidopsis thaliana (Mouse-ear cress)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for At5g56260 recombinant protein	MBS1419915 is a recombinant protein targeting At5g56260. Also known as Recombinant Arabidopsis thaliana Regulator of ribonuclease-like protein 3 (At5g56260). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of At5g56260 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 At5g56260. It may not necessarily be applicable to this product.

NCBI GI #	1063741585
NCBI GeneID	835725
NCBI Accession #	NP_001331062.1
UniProt Primary Accession #	Q9FH13

UniProt Secondary Accession #	Q53XH2
UniProt Related Accession #	Q9FH13
GenBank Nucleotide #	NM_001345190.1
NCBI Official Full Name	Ribonuclease E inhibitor RraA/Dimethylmenaquinone methyltransferase
NCBI Official Symbol	AT5G56260
NCBI Official Synonym Symbols	K24C1.7; K24C1_7
UniProt Protein Name	Putative 4-hydroxy-4-methyl-2-oxoglutarate aldolase 3
UniProt Synonym Protein Names	Oxaloacetate decarboxylase (EC:4.1.1.3); OAA decarboxylase; Regulator of ribonuclease activity homolog 3; RraA-like protein 3
Protein Family	Putative 4-hydroxy-4-methyl-2-oxoglutarate aldolase
UniProt Gene Name	At5g56260
UniProt Synonym Gene Names	HMG aldolase 3; OAA decarboxylase
NCBI Protein Information	Ribonuclease E inhibitor RraA/Dimethylmenaquinone methyltransferase
UniProt Comments for At5g56260	Catalyzes the aldol cleavage of 4-hydroxy-4-methyl-2-oxoglutarate (HMG) into 2 molecules of pyruvate. Also contains a secondary oxaloacetate (OAA) decarboxylase activity due to the common pyruvate enolate transition state formed following C-C bond cleavage in the retro-aldol and decarboxylation reactions ().
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