Probable UDP-Glucose 6-Dehydrogenase 1 (UGD1) Arabidopsis Thaliana Recombinant Protein

PRODUCT OVERVIEW

Product Name	Probable UDP-glucose 6-dehydrogenase 1 (UGD1), Recombinant Protein
Full Product Name	Recombinant Arabidopsis thaliana Probable UDP-glucose 6-dehydrogenase 1 (UGD1)
Product Gene Name	UGD1 recombinant protein
Product Synonym Gene Name	UGD1
Sequence	MVKICCIGAG YVGGPTMAVI ALKCPDVEVA VVDISVPRIN AWNSDTLPIY EPGLDDVVKQ CRGKNLFFST DVEKHVREAD IVFVSVNTPT KTRGLGAGKA ADLTYWESAA RMIADVSVSD KIVVEKSTVP VKTAEAIEKI LTHNSKGIKF QILSNPEFLA EGTAIKDLFN PDRVLIGGRE TPEGFKAVQT LKNVYAHWVP EGQIITTNLW SAELSKLAAN AFLAQRISSV NAMSALCEAT GADVTQVSYA VGTDSRIGPK FLNSSVGFGG SCFQKDILNL VYICECNGLP EVAEYWKQVI KINDYQKSRF VNRVVSSMFN SVSNKKIAVL GFAFKKDTGD TRETPAIDVC KGLLEDKARL SIYDPQVTED QIQRDLSMNK FDWDHPLHLQ PMSPTTVKQV TVTWDAYEAT KDAHGICIMT EWDEFKNLDF QKIFDNMQKP AFVFDGRNIM NLQKLREIGF IVYSIGKPLD DWLKDMPAVA
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	53,173 Da
Sequence Positions	1-480, 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 Q9LIA8
Species	Arabidopsis thaliana (Mouse-ear cress)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for UGD1 recombinant protein	MBS1376929 is a recombinant protein targeting UGD1. Also known as Recombinant Arabidopsis thaliana Probable UDP-glucose 6-dehydrogenase 1 (UGD1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of UGD1 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 UGD1. It may not necessarily be applicable to this product.

NCBI GI #	79313984
NCBI GeneID	822594
NCBI Accession #	NP_001030792.1

UniProt Primary Accession #	Q9LIA8
UniProt Secondary Accession #	Q8L8N1; Q944R8
UniProt Related Accession #	Q9LIA8
GenBank Nucleotide #	NM_001035715.1
NCBI Official Full Name	UDP-glucose 6-dehydrogenase family protein
NCBI Official Symbol	UGD2
NCBI Official Synonym Symbols	UDP-glucose dehydrogenase 2
UniProt Protein Name	UDP-glucose 6-dehydrogenase 2
UniProt Synonym Protein Names	At-UGD2
Protein Family	UDP-glucose 6-dehydrogenase
UniProt Gene Name	UGD2
UniProt Synonym Gene Names	UGD; UDP-Glc dehydrogenase 2; UDP-GlcDH 2; UDPGDH 2
NCBI Protein Information	UDP-glucose 6-dehydrogenase family protein
NCBI Summary for UGD1	Encodes one of four UDP-glucose dehydrogenase UGD) genes. Mutation of this gene in combination with UGD3 leads to swollen plant cell walls and severe developmental defects associated with changes in pectic polysaccharides.
UniProt Comments for UGD1	Involved in the biosynthesis of UDP-glucuronic acid (UDP-GlcA), providing nucleotide sugars for cell-wall polymers. Required for the formation of cell wall ingrowths on the outer cell walls of nematode-induced syncytia.
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