Glucuronokinase 1 (GLCAK1) Arabidopsis Thaliana Recombinant Protein

PRODUCT OVERVIEW

Product Name	Glucuronokinase 1 (GLCAK1), Recombinant Protein
Full Product Name	Recombinant Arabidopsis thaliana Glucuronokinase 1 (GLCAK1)
Product Gene Name	GLCAK1 recombinant protein
Product Synonym Gene Name	GLCAK1
Sequence	MDPNSTVSGD GQATAAIEHR SFARIGFLGN PSDVYFGRTI SLTIGNFWAS VKLEPSEHLV IKPHPFHDLV QFTSLDHLLN RLQNEGYYGG VRLLMAICKV FRNYCKENDI QLHQANFSLS YDTNIPRQTG LSGSSAIVSA ALNCLLDFYN VRHLIKVQVR PNIVLSAEKE LGIVAGLQDR VAQVYGGLVH MDFSKEHMDK LGHGIYTPMD ISLLPPLHLI YAENPSDSGK VHSMVRQRWL DGDEFIISSM KEVGSLAEEG RTALLNKDHS KLVELMNLNF DIRRRMFGDE CLGAMNIEMV EVARRVGAAS KFTGSGGAVV VFCPEGPSQV KLLEEECRKA GFTLQPVKIA PSCLNDSDIQ TL
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	40,076 Da
Sequence Positions	1-362, 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 Q93ZC9
Species	Arabidopsis thaliana (Mouse-ear cress)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for GLCAK1 recombinant protein	MBS1347619 is a recombinant protein targeting GLCAK1. Also known as Recombinant Arabidopsis thaliana Glucuronokinase 1 (GLCAK1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of GLCAK1 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 GLCAK1. It may not necessarily be applicable to this product.

NCBI GI #	30678384
NCBI GeneID	819902
NCBI Accession #	NP_566144.2
UniProt Primary Accession #	Q93ZC9

UniProt Secondary Accession #	Q9SS91
UniProt Related Accession #	Q93ZC9
GenBank Nucleotide #	NM_111030.3
NCBI Official Full Name	glucuronokinase G
NCBI Official Symbol	GLCAK
NCBI Official Synonym Symbols	ARABIDOPSIS THALIANA GLUCURONOKINASE; ATGLCAK; F4P13.18; F4P13_18; glucuronokinase G
UniProt Protein Name	Glucuronokinase 1
Protein Family	Glucuronokinase
UniProt Gene Name	GLCAK1
UniProt Synonym Gene Names	AtGlcAK1
NCBI Protein Information	glucuronokinase G
NCBI Summary for GLCAK1	AtGlcAK is a sugar kinase able to phosphorylate D-GlcA to D-GlcA-1-phosphate in the presence of ATP.
UniProt Comments for GLCAK1	Sugar-1-kinase with a strict substrate specificity for D-glucuronic acid and ATP. Involved in the biosynthesis of UDP-glucuronic acid (UDP-GlcA), providing nucleotide sugars for cell-wall polymers. May be also involved in a salvage pathway for glucuronic acid.
Research Articles on GLCAK1	**1.** Glucuronokinase in Arabidopsis thaliana is an enzyme of the myo-inositol oxygenase pathway
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