UDP-Glycosyltransferase 75b1 (UGT75B1) Arabidopsis Thaliana Recombinant Protein

PRODUCT OVERVIEW

Product Name	UDP-glycosyltransferase 75B1 (UGT75B1), Recombinant Protein
Full Product Name	Recombinant Arabidopsis thaliana UDP-glycosyltransferase 75B1 (UGT75B1)
Product Gene Name	UGT75B1 recombinant protein
Product Synonym Gene Name	UGT75B1
Sequence	MAPPHFLLVT FPAQGHVNPS LRFARRLIKR TGARVTFVTC VSVFHNSMIA NHNKVENLSF LTFSDGFDDG GISTYEDRQK RSVNLKVNGD KALSDFIEAT KNGDSPVTCL IYTILLNWAP KVARRFQLPS ALLWIQPALV FNIYYTHFMG NKSVFELPNL SSLEIRDLPS FLTPSNTNKG AYDAFQEMME FLIKETKPKI LINTFDSLEP EALTAFPNID MVAVGPLLPT EIFSGSTNKS VKDQSSSYTL WLDSKTESSV IYVSFGTMVE LSKKQIEELA RALIEGKRPF LWVITDKSNR ETKTEGEEET EIEKIAGFRH ELEEVGMIVS WCSQIEVLSH RAVGCFVTHC GWSSTLESLV LGVPVVAFPM WSDQPTNAKL LEESWKTGVR VRENKDGLVE RGEIRRCLEA VMEEKSVELR ENAKKWKRLA MEAGREGGSS DKNMEAFVED ICGESLIQNL CEAEEVKVK
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	52,813 Da
Sequence Positions	1-469, 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 Q9LR44
Species	Arabidopsis thaliana (Mouse-ear cress)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for UGT75B1 recombinant protein	MBS1385581 is a recombinant protein targeting UGT75B1. Also known as Recombinant Arabidopsis thaliana UDP-glycosyltransferase 75B1 (UGT75B1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of UGT75B1 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 UGT75B1. It may not necessarily be applicable to this product.

NCBI GI #	18390540
NCBI GeneID	837058
NCBI Accession #	NP_563742.1

UniProt Primary Accession #	Q9LR44
UniProt Related Accession #	Q9LR44
GenBank Nucleotide #	NM_100435.3
NCBI Official Full Name	UDP-glucosyltransferase 75B1
NCBI Official Symbol	UGT75B1
NCBI Official Synonym Symbols	T25N20.21; UDP-GLUCOSE TRANSFERASE 1; UDP-GLUCOSYLTRANSFERASE; UDP-glucosyltransferase 75B1; UGT1
UniProt Protein Name	UDP-glycosyltransferase 75B1
UniProt Synonym Protein Names	(Uridine 5'-diphosphate-glucose:indol-3-ylacetyl)-beta-D-glucosyl transferase 1; IAA-Glu synthase 1; Indole-3-acetate beta-glucosyltransferase 1 (EC:2.4.1.121)
Protein Family	UDP-glycosyltransferase
UniProt Gene Name	UGT75B1
UniProt Synonym Gene Names	UGT1
NCBI Protein Information	UDP-glucosyltransferase 75B1
NCBI Summary for UGT75B1	A UDP-glucose transferase localized in the phragmoplast. It has been co-purified with the callose synthase complex and may transfer UDP-glucose from sucrose synthase to the callose synthase and thus help form a substrate channel for the synthesis of callose at the forming cell plate. Induced by salicylic acid. Independent of NPR1 for their induction by salicylic acid. UGT1 encodes a protein with glucosyltransferase activity with high sequence homology to UGT2 (AT1G05530). It belongs to an UGT subfamily that binds UDP-glucose but not UDP-glucuronate, UDP-galactose, or UDP-rhamnose as the glycosyl donor. UGT1 was shown to be able to use abscisic acid as glycosylation substrate in the presence of UDP-glucose. UGT1/UGT75B1 catalyzes the formation of the p-aminobenzoate-glucose ester in vitro and in vivo. It appears to be the enzyme predominantly responsible for pABA-Glc formation in Arabidopsis based on assays in leaves, flowers, and siliques.
UniProt Comments for UGT75B1	Possesses low catalytic activity on indole-3-acetic acid (IAA) in vitro. May transfer UDP-glucose from sucrose synthase to callose synthase for the synthesis of callose at the forming cell plate during cytokinesis. Has high affinity for 4-aminobenzoate. Catalyzes the formation of 4-aminobenzoate glucose ester which represents a storage form of 4-aminobenzoate in the vacuole. Is the major source of this activity in the plant. Also active in vitro on benzoates and benzoate derivatives.
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