Alpha-L-Fucosidase 1 (FUC1) Arabidopsis Thaliana Recombinant Protein

PRODUCT OVERVIEW

Product Name	Alpha-L-fucosidase 1 (FUC1), Recombinant Protein
Full Product Name	Recombinant Arabidopsis thaliana Alpha-L-fucosidase 1 (FUC1)
Product Gene Name	FUC1 recombinant protein
Product Synonym Gene Name	FUC1
Sequence	SSLLKPHPCP ILPLPSSQQL QWQLGSMAMF LHFGPNTFTD SEWGTGKANP SIFNPTHLNA SQWVQIAKDS GFSRVILTAK HHDGFCLWPS EYTDYSVKSS QWRNGAGDVV AELASAAKEA GIGLGLYLSP WDRHEQCYGK TLEYNEFYLS QMTELLTKYG EIKEVWLDGA KGDGEKDMEY FFDTWFSLIH QLQPKAVIFS DAGPDVRWIG DEAGLAGSTC WSLFNRTNAK IGDTEPSYSQ EGDGYGQDWV PAECDVSIRP GWFWHASESP KPAVQLLDIY YNSVGRNCLF LLNVPPNSSG LISEQDIKVL EEFSEMKNSI FSNNLARKAF VNSSSIRGDQ SSQFGPKNVL EEGLDKYWAP EENQNEWVLY LEFKDLVSFN VLEIREPIHM GQRIASFHLE TRKTGSGEWE RVVSGTTVGN KRLLRFLNVV ESRSLKLVVD KARTDPLISY LGLYMDKFSG SSRNTTKITI TRTLKEEQQL HDL
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	57,186 Da
Sequence Positions	24-506, 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 Q8GW72
Species	Arabidopsis thaliana (Mouse-ear cress)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for FUC1 recombinant protein	MBS1350436 is a recombinant protein targeting FUC1. Also known as Recombinant Arabidopsis thaliana Alpha-L-fucosidase 1 (FUC1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of FUC1 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 FUC1. It may not necessarily be applicable to this product.

NCBI GI #	30683758
NCBI GeneID	817355
NCBI Accession #	NP_180377.2
UniProt Primary Accession #	Q8GW72

UniProt Secondary Accession #	Q9ZUV2
UniProt Related Accession #	Q8GW72
GenBank Nucleotide #	NM_128370.3
NCBI Official Full Name	alpha-L-fucosidase 1
NCBI Official Symbol	FUC1
NCBI Official Synonym Symbols	alpha-L-fucosidase 1; ATFUC1; F24D13.11; F24D13_11
UniProt Protein Name	Alpha-L-fucosidase 1
UniProt Synonym Protein Names	Alpha-1,3/4-fucosidase; AtFUC1; Alpha-L-fucoside fucohydrolase
Protein Family	Alpha-L-fucosidase
UniProt Gene Name	FUC1
UniProt Synonym Gene Names	AtFUC1
NCBI Protein Information	alpha-L-fucosidase 1
NCBI Summary for FUC1	Encodes a protein with alpha-fucosidase activity. The activity was assessed on 2'-fucosyl-lactitol. AtFUC1 was not able to act on XXFG substrates, at least when heterologously expressed in Pichia pastoris. The enzyme has been postulated to act on fucosylated substrates other than xyloglucan oligosaccharides. was shown (Pichia pastoris) to hydrolyze fucose in 3- and 4-linkage, hence was characterized as alpha-L-3,4-fucosidase
UniProt Comments for FUC1	Hydrolyzes both 3- and 4-linked fucoses in Lewis determinants. Not active on neither 2-linked fucose nor on fucose in alpha-1,3-linkage to the innermost GlcNAc.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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