Beta-Fructofuranosidase, Insoluble Isoenzyme CWINV1 (CWINV1) Arabidopsis Thaliana Recombinant Protein

PRODUCT OVERVIEW

Product Name	Beta-fructofuranosidase, insoluble isoenzyme CWINV1 (CWINV1), Recombinant Protein
Full Product Name	Recombinant Arabidopsis thaliana Beta-fructofuranosidase, insoluble isoenzyme CWINV1 (CWINV1) , partial
Product Gene Name	CWINV1 recombinant protein
Product Synonym Gene Name	CWINV1
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	66,280 Da
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 Q43866
Species	Arabidopsis thaliana (Mouse-ear cress)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for CWINV1 recombinant protein	MBS1328336 is a recombinant protein targeting CWINV1. Also known as Recombinant Arabidopsis thaliana Beta-fructofuranosidase, insoluble isoenzyme CWINV1 (CWINV1) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of CWINV1 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 CWINV1. It may not necessarily be applicable to this product.

NCBI GI #	334185321
NCBI GeneID	820591
NCBI Accession #	NP_001189881.1
UniProt Primary Accession #	Q43866
UniProt Secondary Accession #	Q9LIB8
UniProt Related Accession #	Q43866
GenBank Nucleotide #	NM_001202952.1

NCBI Official Full Name	Glycosyl hydrolases family 32 protein
NCBI Official Symbol	ATBFRUCT1
NCBI Official Synonym Symbols	ARABIDOPSIS THALIANA CELL WALL INVERTASE 1; ATCWINV1
UniProt Protein Name	Beta-fructofuranosidase, insoluble isoenzyme CWINV1
UniProt Synonym Protein Names	Cell wall beta-fructosidase 1; AtbetaFRUCT1; Cell wall invertase 1; AtcwINV1; Sucrose hydrolase 1
Protein Family	Beta-fructofuranosidase
UniProt Gene Name	CWINV1
UniProt Synonym Gene Names	BFRUCT1; AtbetaFRUCT1; AtcwINV1
NCBI Protein Information	Glycosyl hydrolases family 32 protein
NCBI Summary for CWINV1	Encodes a protein with invertase activity.
UniProt Comments for CWINV1	Beta-fructofuranosidase that can use sucrose and 1-kestose, and, to a lower extent, neokestose and levan, as substrates, but not inuline.
Research Articles on CWINV1	**1.** E203Q mutation introduced into the catalytic pocket triggers conformational changes that alter the wild type substrate binding.
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