Homeobox Protein Knotted-1-Like 7 (KNAT7) Arabidopsis Thaliana Recombinant Protein

PRODUCT OVERVIEW

Product Name	Homeobox protein knotted-1-like 7 (KNAT7), Recombinant Protein
Full Product Name	Recombinant Arabidopsis thaliana Homeobox protein knotted-1-like 7 (KNAT7)
Product Gene Name	KNAT7 recombinant protein
Product Synonym Gene Name	KNAT7
Sequence	MQEAALGMMG ATVGGDGDTA VVAEQNRQLK GEIATHPMYE QLLAAHVACL RVATPIDQLP IIEAQLSQSH HLLRSYASTA VGYHHDRHEL DNFLAQYVMV LCSFKEQLQQ HVRVHAVEAV MACREIENNL HSLTGATLGE GSGATMSEDE DDLPMDFSSD NSGVDFSGGH DMTGFGPLLP TESERSLMER VRQELKLELK QGFKSRIEDV REEIMRKRRA GKLPGDTTTV LKNWWQQHCK WPYPTEDDKA KLVEETGLQL KQINNWFINQ RKRNWHNNSH SLTSLKSKRK H
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	32,908 Da
Sequence Positions	1-291, 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 Q9FPQ8
Species	Arabidopsis thaliana (Mouse-ear cress)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for KNAT7 recombinant protein	MBS1379737 is a recombinant protein targeting KNAT7. Also known as Recombinant Arabidopsis thaliana Homeobox protein knotted-1-like 7 (KNAT7). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of KNAT7 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 KNAT7. It may not necessarily be applicable to this product.

NCBI GI #	18407708
NCBI GeneID	842602
NCBI Accession #	NP_564805.1
UniProt Primary Accession #	Q9FPQ8
UniProt Secondary Accession #	Q8GXB5; Q8LG94; Q9LQ05

UniProt Related Accession #	Q9FPQ8
GenBank Nucleotide #	NM_104977.3
NCBI Official Full Name	homeobox knotted-like protein
NCBI Official Symbol	KNAT7
NCBI Official Synonym Symbols	F16P17.16; F16P17_16; IRREGULAR XYLEM 11; IRX11; IXR11; KNOTTED-like homeobox of Arabidopsis thaliana 7; TRANSCRIPTION FACTOR KNAT7
UniProt Protein Name	Homeobox protein knotted-1-like 7
UniProt Synonym Protein Names	Protein IRREGULAR XYLEM 11; Protein KNAT7
UniProt Gene Name	KNAT7
UniProt Synonym Gene Names	IRX11
NCBI Protein Information	homeobox knotted-like protein
NCBI Summary for KNAT7	Encodes a homeodomain transcription factor of the Knotted family. May be involved in secondary cell wall biosynthesis. Mutants have moderately irregular xylem development. Expression of this gene is upregulated by SND1 and MYB46.
UniProt Comments for KNAT7	May be involved in secondary cell wall biosynthesis.
Research Articles on KNAT7	**1.** This study shows that OFP1 and OFP4 enhance the repression activity of BLH6, supporting a role for these OFPs as components of a putative multi-protein transcription regulatory complex containing BLH6 and KNAT7.
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