Histone-Lysine N-Methyltransferase ASHH1 (ASHH1) Arabidopsis Thaliana Recombinant Protein

PRODUCT OVERVIEW

Product Name	Histone-lysine N-methyltransferase ASHH1 (ASHH1), Recombinant Protein
Full Product Name	Recombinant Arabidopsis thaliana Histone-lysine N-methyltransferase ASHH1 (ASHH1)
Product Gene Name	ASHH1 recombinant protein
Product Synonym Gene Name	ASHH1
Sequence	MQFSCDPDQE GDELPQYEHI YQNDFSYRKH KKQKEEDISI CECKFDFGDP DSACGERCLN VITNTECTPG YCPCGVYCKN QKFQKCEYAK TKLIKCEGRG WGLVALEEIK AGQFIMEYCG EVISWKEAKK RAQTYETHGV KDAYIISLNA SEAIDATKKG SLARFINHSC RPNCETRKWN VLGEVRVGIF AKESISPRTE LAYDYNFEWY GGAKVRCLCG AVACSGFLGA KSRGFQEDTY VWEDGDDRYS VDKIPVYDSA EDELTSEPSK NGESNTNEEK EKDISTENHL ESTALNIQQQ SDSTPTPMEE DVVTETVKTE TSEDMKLLSQ NSQEDSSPKT AIVSRVHGNI SKIKSESLPK KRGRPFSGGK TKNVAQKHVD IANVVQLLAT KEAQDEVLKY EEVKKEAAVR LSSLYDEIRP AIEEHERDSQ DSVATSVAEK WIQASCNKLK AEFDLYSSVI KNIASTPIKP QDTKTKVAEA GNEDHIKLLE AK
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	55,285 Da
Sequence Positions	1-492, 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 Q84WW6
Species	Arabidopsis thaliana (Mouse-ear cress)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ASHH1 recombinant protein	MBS1364236 is a recombinant protein targeting ASHH1. Also known as Recombinant Arabidopsis thaliana Histone-lysine N-methyltransferase ASHH1 (ASHH1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of ASHH1 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 ASHH1. It may not necessarily be applicable to this product.

NCBI GI #	22330671
NCBI GeneID	844005
NCBI Accession #	NP_177797.2

UniProt Primary Accession #	Q84WW6
UniProt Secondary Accession #	Q945S9; Q9SRE2; C0SV35
UniProt Related Accession #	Q84WW6
GenBank Nucleotide #	NM_106321.4
NCBI Official Full Name	SET domain group 26
NCBI Official Symbol	ASHH1
NCBI Official Synonym Symbols	ASH1 RELATED PROTEIN 1; ASH1-RELATED PROTEIN 1; F28O16.8; F28O16_8; SDG26; SET domain group 26
UniProt Protein Name	Histone-lysine N-methyltransferase ASHH1
UniProt Synonym Protein Names	ASH1 homolog 1; Protein SET DOMAIN GROUP 26
Protein Family	Histone-lysine N-methyltransferase
UniProt Gene Name	ASHH1
UniProt Synonym Gene Names	SDG26; SET26
NCBI Protein Information	SET domain group 26
UniProt Comments for ASHH1	Histone methyltransferase involved in regulation of flowering time. Required for the expression of the SOC1/AGL20 gene. Required for histone H3 trimethylation on 'Lys-4' (H3K4me3) at the SOC1 locus. Prevents trimethylation on 'Lys-27' (H3K27me3) at the same locus.
Research Articles on ASHH1	**1.** We show that the sdg8 mutation is epistatic to the sdg26 one, leading to a sdg8 sdg26 double mutant exhibiting defects similar to sdg8 (reduced level of H3K36me3, increased level of H3K36me1, reduced plant body size, early flowering
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