Histone-lysine N-methyltransferase ATXR5 (ATXR5), Recombinant Protein

CD BioSciences
Plant Protein

Cat *RP04621*

Size *0.02 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg (E-Coli)/ 0.1 mg (Yeast)/ 0.02 mg (Baculovirus)/ 0.02 mg (Mammalian-Cell)/ 0.1 mg (Baculovirus)/ 1 mg (E-Coli)/ 1 mg (Yeast)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)*

Species
Arabidopsis thaliana (Mouse-ear cress)

Full Product Name
Recombinant Arabidopsis thaliana Histone-lysine N-methyltransferase ATXR5 (ATXR5)

Product Gene Name
ATXR5 recombinant protein

Product Synonym Gene Name
ATXR5

Purity
Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)

Sequence
MATWNASSPA ASPCSSRRRT KAPARRPSSE SPPPRKMKSM AEIMAKSVPV VEQEEEEDED SYSNVTCEKC GSGEGDDELL LCDKCDRGFH MKCLRPIVVR VPIGTWLCVD CSDQRPVRKE TRKRRRSCSL TVKKRRRKLL PLVPSEDPDQ RLAQMGTLAS ALTALGIKYS DGLNYVPGMA PRSANQSKLE KGGMQVLCKE DLETLEQCQS MYRRGECPPL VVVFDPLEGY TVEADGPIKD LTFIAEYTGD VDYLKNREKD DCDSIMTLLL SEDPSKTLVI CPDKFGNISR FINGINNHNP VAKKKQNCKC VRYSINGECR VLLVATRDIS KGERLYYDYN GYEHEYPTHH FL

Sequence Positions
1-352, Full length protein

Format
Lyophilized or liquid (Format to be determined during the manufacturing process)

Host
E Coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight
39,717 Da

Storage
Store at -20℃. For long-term storage, store at -20℃ or -80℃. Store working aliquots at 4℃ for up to one week. Repeated freezing and thawing is not recommended.

Protein Family
Histone-lysine N-methyltransferase

NCBI Accession
NP_001078559.1

NCBI GI
145334355

NCBI GenBank Nucleotide

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NM_001085090.2

NCBI GeneID
830839

NCBI Official Full Name
TRITHORAX-RELATED PROTEIN 5

NCBI Official Symbol
ATXR5

NCBI Official Synonym Symbols
ARABIDOPSIS TRITHORAX-RELATED PROTEIN 5; F17I14.20; F17I14_20; PDE336; PIGMENT DEFECTIVE 336; SDG15; SETDOMAIN GROUP 15

NCBI Protein Information
TRITHORAX-RELATED PROTEIN 5

NCBI Summary
Encodes a SET-domain protein, a H3K27 monomethyltransferases required for chromatin structure and gene silencing. Regulates heterochromatic DNA replication. Contains a PCNA-binding domain. ATXR5 accumulates preferentially during the late G1 or S phase, suggesting that it plays a role in cell-cycle regulation or progression. A plant line expressing an RNAi construct directed against this gene has reduced agrobacterium-mediated tumor formation.

UniProt Gene Name
ATXR5

UniProt Synonym Gene Names
SDG15; SET15; TRX-related protein 5

UniProt Protein Name
Histone-lysine N-methyltransferase ATXR5

UniProt Synonym Protein Names
Protein SET DOMAIN GROUP 15; Trithorax-related protein 5; TRX-related protein 5

UniProt Primary Accession
Q8VZJ1

UniProt Secondary Accession
Q1AJM5; Q9FXW6; Q9LXE2; F4KFB9

UniProt Related Accession
Q8VZJ1

UniProt Comments
Histone methyltransferase that specifically monomethylates 'Lys-37' of histone H3 (H3K27me1). Has much higher activity on nucleosomes containing H3.1 than H3.3. Involved in the formation of constitutive heterochromatin and the silencing of heterochromatic elements. Influences which sets of rRNA gene variants are expressed or

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silenced.

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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