Probable Histone H2a.5 (AT5G27670) Arabidopsis Thaliana Recombinant Protein

PRODUCT OVERVIEW

Product Name	Probable histone H2A.5 (At5g27670), Recombinant Protein
Full Product Name	Recombinant Arabidopsis thaliana Probable histone H2A.5 (At5g27670)
Product Gene Name	At5g27670 recombinant protein
Product Synonym Gene Name	At5g27670
Sequence	MESSQATTKP TRGAGGRKGG DRKKSVSKSV KAGLQFPVGR IARYLKKGRY ALRYGSGAPV YLAAVLEYLA AEVLELAGNA ARDNKKNRIN PRHLCLAIRN DEELGRLLHG VTIASGGVLP NINPVLLPKK STASSSQAEK ASATKSPKKA
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	15,908 Da
Sequence Positions	1-150, 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 Q94F49
Species	Arabidopsis thaliana (Mouse-ear cress)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for At5g27670 recombinant protein	MBS1350947 is a recombinant protein targeting At5g27670. Also known as Recombinant Arabidopsis thaliana Probable histone H2A.5 (At5g27670). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of At5g27670 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 At5g27670. It may not necessarily be applicable to this product.

NCBI GI #	15241016
NCBI GeneID	832829
NCBI Accession #	NP_198119.1
UniProt Primary Accession #	Q94F49
UniProt Related Accession #	Q94F49

GenBank Nucleotide #	NM_122649.5
NCBI Official Full Name	histone H2A 7
NCBI Official Symbol	HTA7
NCBI Official Synonym Symbols	histone H2A 7; T1G16.3
UniProt Protein Name	Probable histone H2A.5
UniProt Synonym Protein Names	HTA7
UniProt Gene Name	At5g27670
NCBI Protein Information	histone H2A 7
NCBI Summary for At5g27670	Encodes HTA7, a histone H2A protein.
UniProt Comments for At5g27670	Core component of nucleosome. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machineries which require DNA as a template. Histones thereby play a central role in transcription regulation, DNA repair, DNA replication and chromosomal stability. DNA accessibility is regulated via a complex set of post-translational modifications of histones, also called histone code, and nucleosome remodeling.
Research Articles on At5g27670	**1.** H2A.W marks heterochromatin specifically and acts in synergy with H3K9me2 and DNA methylation to maintain transposon silencing. In vitro, H2A.W enhances chromatin condensation by promoting fiber-to-fiber interactions via its C-terminal motif. In vivo, H2A.W is required for heterochromatin condensation, thus H2A.W is critical for heterochromatin organization. [H2A.W.7]
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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