

Product datasheet

Recombinant Human Histone H1 protein ab198676

[5 References](#) [1 Image](#)

Description

Product name	Recombinant Human Histone H1 protein
Purity	>= 90 % SDS-PAGE. Affinity purified.
Expression system	Escherichia coli
Accession	<u>P07305</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MHHHHHTENSTSAAPAKPKRAKASKKSTDHPKYSDMIV AAIQAEKNRAG SSRQSIQKYIKSHYKVGENADSIKLSIKRLVTTGVLKQTKG VGASGSFR LAKSDEPKKSVAFKKTKKEIKKVATPKKASKPKKAASKA PTKKPKATPVK KAKKKLAATPKKAKKPKTVKAKPVKASKPKKAKPVKPKA KSSAKRAGKKK
Predicted molecular weight	22 kDa including tags
Amino acids	2 to 194
Tags	His tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab198676** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE
Form	Liquid
Additional notes	Useful as a substrate for histone methyltransferase and acetyltransferase assays. Ideal for screening small molecular inhibitors of histone modifying enzymes for drug discovery and HTS applications.

Preparation and Storage

Stability and Storage

Shipped on Dry Ice. Store at -80°C. Avoid freeze / thaw cycle.

pH: 7.40

Constituents: 79% PBS, 0.64% Sodium chloride, 0.02% Potassium chloride, 0.05% (R*,R*)-1,4-Dimercaptobutan-2,3-diol, 20% Glycerol (glycerin, glycerine)

General Info

Function

May play a key role in the control of gene expression during oogenesis and early embryogenesis, presumably through the perturbation of chromatin structure. Essential for meiotic maturation of germinal vesicle-stage oocytes. The somatic type linker histone H1c is rapidly replaced by H1oo in a donor nucleus transplanted into an oocyte. The greater mobility of H1oo as compared to H1c may contribute to this rapid replacement and increased instability of the embryonic chromatin structure. The rapid replacement of H1c with H1oo may play an important role in nuclear remodeling.

Tissue specificity

Oocyte-specific.

Sequence similarities

Belongs to the histone H1/H5 family.

Contains 1 H15 (linker histone H1/H5 globular) domain.

Cellular localization

Cytoplasm. Nucleus. Chromosome.

Images



4-20% SDS-PAGE analysis of ab198676 (2 µg) with Coomassie staining.

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