

Recombinant Human Histone H2A Protein

Catalog No.: RP03260 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	92815	Q7L7L0

Tags

No tag

Synonyms

Histone H2A type 3; HIST3H2A; H2AC25; H2AW

Product Information

Source	Purification
E.coli	> 95% by SDS-PAGE.

Endotoxin

< 1.0 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

HIST3H2A is a member of histones, which are a complex family of highly conserved basic proteins responsible for packaging chromosomal DNA into nucleosomes. Covalent modification of histones is important in regulating chromatin dynamics and transcription. One example of such modification is ubiquitination, which mainly occurs on histones H2A and H2B. E3 ubiquitin ligase complex is specific for histone H2A (HIST3H2A). Reducing the expression of Ring2 results in a dramatic decrease in the level of ubiquitinated H2A in HeLa cells. DNA damage induces monoubiquitylation of histone H2A (HIST3H2A) in the vicinity of DNA lesions.

Basic Information

Description

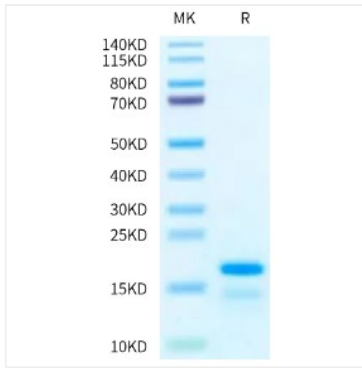
Recombinant Human HIST3H2A Protein is produced by E.coli expression system. The target protein is expressed with sequence (Ser2-Lys130) of human HIST3H2A (Accession #NP_254280.1) fused with No tag.

Bio-Activity

Storage

Store the lyophilized protein at -20°C to -80°C for 12 months. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human HIST3H2A Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 15-20 kDa.