

## H2A.1 Protein, Human, Recombinant (His)

### General Information

Synonyms:	HIST1H2AI;H2AC15;H2AC13;HIST1H2AM;H2A.1;HIST1H2AL;HIST1H2AG;H2AFD;Histone H2A/ptl;HIST1H2AK;H2AFP;H2AFI;H2AC17;Histone H2A type 1;H2AC11;H2AFC;H2AC16;
Protein Construction:	2-130 aa
Species:	Human
Expression Host:	E. coli
Accession:	POC0S8
Molecular Weight:	18.0 kDa (predicted)
AA Sequence:	SGRGKQGGKARAKAKTRSSRAGLQFPVGRVHRLLRKGNYAERVGAGAPVYLAADVLEYLTAEILELAGNAARD NKKTRIIPRHLQLAIRNDEELNKLKLVITIAQGGVLPNIQAVLLPKKTESHHKAKGK

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

### Preparation and Storage

#### Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

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.

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