



Human Histone H3

Origin:	Recombinant	Cat. No.:	41830
Tag:	N-terminal 6xHis	Size:	0.1 mg
Source:	<i>E.coli</i>	Purity:	>90%
Other Names:	H3	Species:	Human

Description

Expressed in *E.coli* cells with total 179 AA. Mw: 20.33 KDa (calculated).
N-terminal 6xHis-tag, Xpress Epitope, EK recognition site and TEV cleavage site, 44 extra AA (highlighted).

Recombinant antigen for research use or manufacturing only.

Introduction to the Molecule

Histones are proteins that package DNA into nucleosomes and are responsible for maintaining the shape and structure of a nucleosome.

There are five families of histones known to date, H1/H5, H2A, H2B, H3, and H4. H3, along with H2A, H2B and H4, is considered as a core histone.

Anti-histone autoantibodies are found in 50%-70% of patients with systemic lupus erythematosus (SLE) and in more than 95% of patients with drug-induced lupus erythematosus.

Immunological Function

As an autoantigen, H3 binds with IgG-type human auto-antibodies.

Amino Acid Sequence

**MRGSHHHHHGMASMTGGQQMGRDLYDDDDKDRWGSENL~~YFQGA~~AARTKQTARKST
GGKAPRKQLATKAARKSAPATGGVKKPHRYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQ
DFKTDLRFQSSAVMALQEACEAYLVGLFEDTNLCAIHAKRVTIMPKDIQLARRIGERA**

Applications

Standard ELISA test, line/dot assay and microarray assay with positive/negative sera panels.

Formulation

Liquid in storage buffer (137mM NaCl, 2.7mM KCl, 100mM Na₂HPO₄, 1.5mM KH₂PO₄, Protease inhibitor, pH 7.4).





Storage

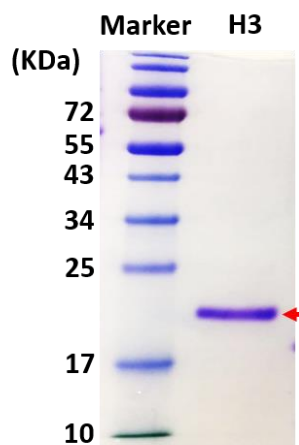
Store at -80°C . Avoid repeated freezing/thawing cycles.

Quality Control Test

BCA to determine quantity of the protein.

SDS PAGE to determine purity of the protein.

SDS-PAGE Gel



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