

Histone H3K4me3, synthetic

25 µg

Catalogue number: AH3-1001

Almac Peptide and Protein Technologies

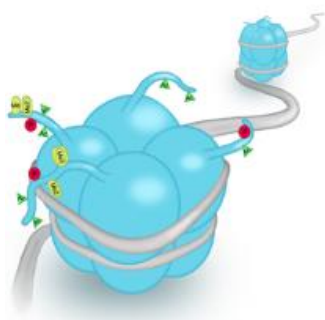
Chemokines

Custom Peptides

Site-Specific protein labelling

Modified Histones

Ubiquitylated peptides



Background

Histones are globular proteins that are subject to a wide variety of post-translational modifications^{1, 2}. These histone modifications, which occur predominantly on the unstructured N-terminal tails, form an epigenetic code central in the regulation of regular and disease-specific cellular processes, in particular DNA replication, repair and transcription^{3, 4}.

Our synthetic modified histones correspond exactly to the sequences of the natural modified Histones, containing no amino acid replacements or residue analogs, and can be used in a variety of applications, such as substrates for specific histone modification enzymes, protein binding assays and the generation of chromatin preparations.

¹ Strahl B et al., 2000, Nature 403, 41; ² Rando O, 2007, Curr Opin Genet Dev 17, 94; ³ Martin C et al., 2005, Nat Rev Mol Cell Biol 6, 838; ⁴ Biancotto C et al., 2010, Adv Genet 70, 341

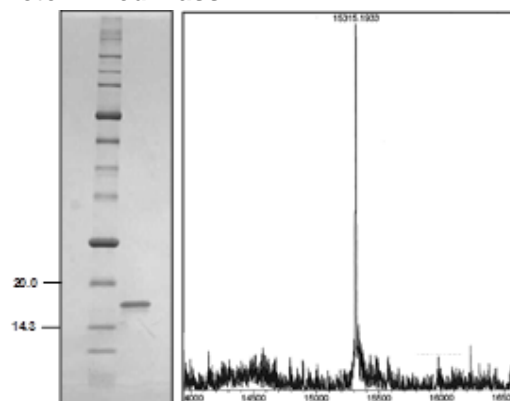
Product Information

Sequence:

ARTK(Me3)QTARKS TGGKAPRKQL ATKAARKSAP
ATGGVKKPHR YRPGTVALRE IRRYQKSTEL LIRKLPFQRL
VREIAQDFKT DLRFSQSSAVM ALQEACEAYL
VGLFEDTNLC AIHAKRVTIM PKDIQLARRI RGERA

Purity

95% by Coomassie-stained SDS-PAGE under reducing conditions

Determined Mass: 15 315.2 Da

Synthetic H3K4me3 analysed by SDS-PAGE (lane 1 MW marker; lane 2 H3K4me3). Product mass determined by ESI-TOF mass spectrometry (expected mass 15 315.9 Da)

**Formulation/
Appearance:**

White powder, lyophilized.
Protein content determined by Bradford assay.

Preparation and Storage

**Reconstitution /
Storage:**

It is recommended that unopened vials are stored at -20 °C to -70 °C for periods of up to 12 months. Avoid repeat freeze-thaw cycles.

Centrifuged vials prior to opening.

Reconstitute in water or a suitable buffer for your assay.

Not fully tested. For research use only. Not for use in human diagnostic or therapeutic procedures.