

## Histone H3K9me3, synthetic

Catalog number: AH3-1004

25 µg

### Almac Peptide and Protein Technologies

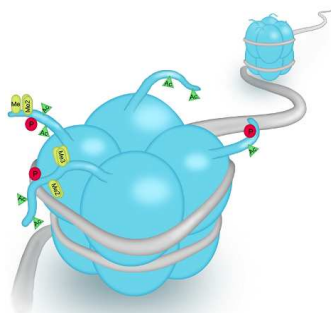
Chemokines

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<sup>1,2</sup>. 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<sup>3,4</sup>.

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.

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

### Product Information

#### Sequence:

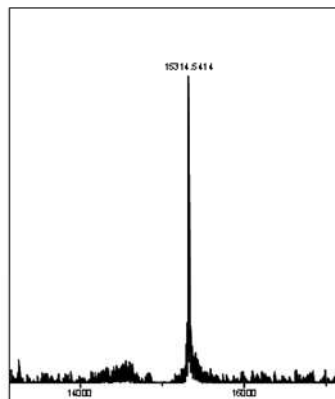
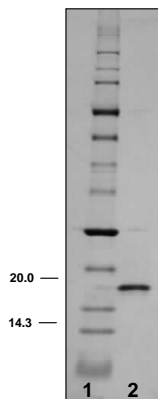
ARTKQTAR**K(Me<sub>3</sub>)S** TGGKAPRKQL ATKAARKSAP  
ATGGVKKPHR YRPGTVALRE IRRYQKSTEL LIRKLFPQRL  
VREIAQDFKT DLRFQSSAVM ALQEACEAYL VGLFEDTNLC  
AIHAKRVTIM PKDIQLARRI RGERA

#### Purity:

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

#### Determined Mass:

15 314.5 Da



Synthetic H3K9me3 analysed by SDS-PAGE (lane 1 MW marker; lane 2 H3K9me3). 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.

Centrifuge 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.*