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# Histone H3K9me2, synthetic



Catalogue number: Catalog number: AH3-1003

### Almac Peptide and Protein Technologies

Chemokines

**Custom Peptides** 

Site-Specific protein labelling

## **Modified Histones**

Ubiquitylated peptides



## Background

SHOP

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

AIHAKRVTIM PKDIQLARRI RGERA

ARTKQTARK(Me2)S TGGKAPRKQL ATKAARKSAP

ATGGVKKPHR YRPGTVALRE IRRYQKSTEL LIRKLPFQRL VREIAQDFKT DLRFQSSAVM ALQEACEAYL VGLFEDTNLC

#### **Product Information**

Sequence:

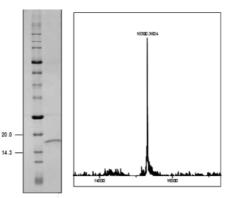
Purity

Storage:

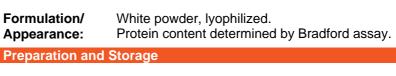
95% by Coomassie-stained SDS-PAGE under reducing conditions

**Determined Mass:** 

15 300.4 Da



Synthetic H3K9me2 analysed by SDS-PAGE (lane 1 MW marker; lane 2 H3K9me2). Product mass determined by ESI-TOF mass spectrometry (expected mass 15 300.9 Da)



**Reconstitution /** 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.