Histone H3K9me, synthetic

25 µg

Catalogue number: Catalog number: AH3-1002

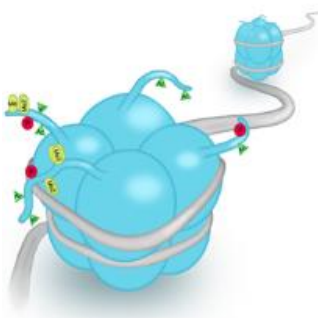**Almac Peptide and Protein Technologies**

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: ARTKQTARK(Me)S TGGKAPRKQL ATKAARKSAP ATGGVKKPHR YRPGTVALRE IRRYQKSTEL LIRKLPFQRL VREIAQDFKT DLRFQSSAVM ALQEACEAYL VGLFEDTNLC AIHAKRVTIM PKDIQLARRI RGERA

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

Determined Mass: 15 315.2 Da
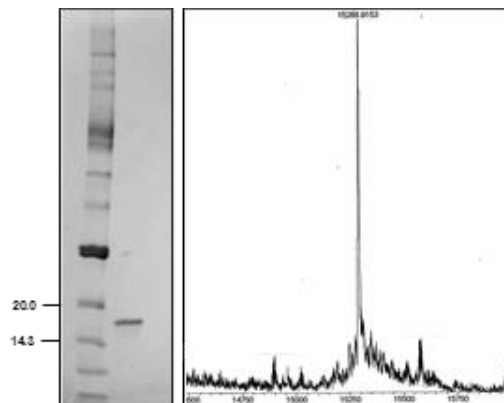
Synthetic H3K9me analysed by SDS-PAGE (lane 1 MW marker; lane 2 H3K9me). Product mass determined by ESI-TOF mass spectrometry (expected mass 15 286.9 Da)

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.