ALMAC SHOP

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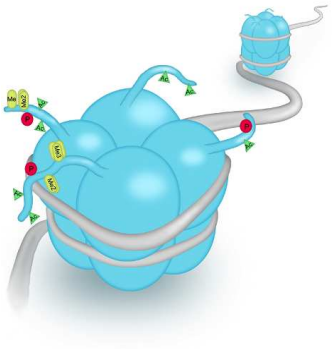
Histone H3K9acK14ac, synthetic

25 µg

Catalog number: AH3-3001

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:

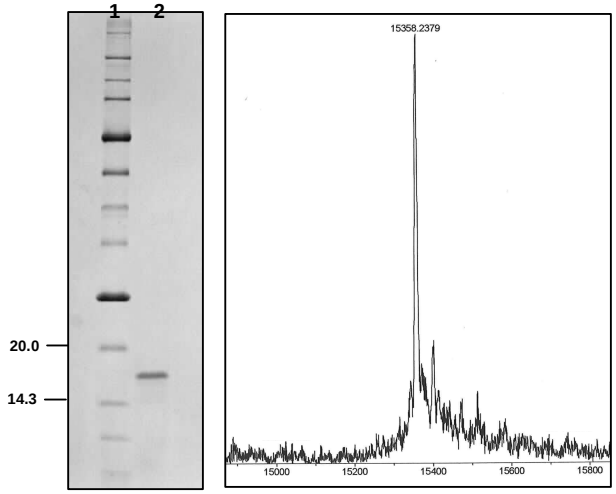
ARTKQTAR**K(Ac)**S TGG**K(Ac)**APRKQL ATKAARKSAP ATGGVKKPHR YRPGTVALRE IRRYQKSTEL LIRKLPFQRL VREIAQDFKT DLRFQSSAVM ALQEACEAYL VGLFEDTNLC AIHAKRVTIM PKDIQLARRI RGERA

Purity:

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

Determined Mass:

15 358.2 Da



Synthetic H3K9acK14ac analysed by SDS-PAGE (lane 1 MW marker; lane 2 H3K9acK14ac). Product mass determined by ESI-TOF mass spectrometry (expected mass 15 356.9 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 ℃ to -70 ℃ 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.