

Histone H3K79me3 Recombinant Protein | H3K79me3 recombinant protein

Recombinant Histone H3K79me3 (MLA)

CATALOG # AAA59760	HOST E Coli
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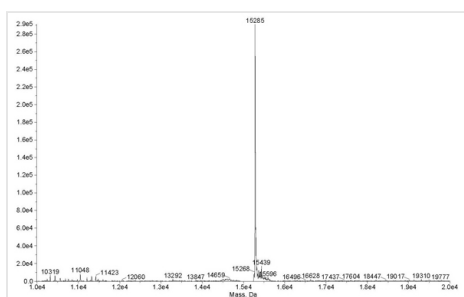
PRODUCT SYNONYMS

Histone H3K79me3; Recombinant Histone H3K79me3 (MLA); Histone 3; Histone H3; H3K79me3; MLA; methylated lysine analog; H3K79me3 recombinant protein

PRODUCT SPECIFICATIONS

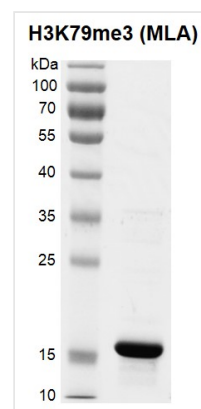
Host	E Coli
Purity/Purification	The recombinant histone is >92% pure by SDS-PAGE.
Form/Format	Recombinant Histone H3K79me3 (MLA) is supplied in 50mM Tris-HCl, pH7.4, 150mM NaCl and 10% glycerol.
Protein Species	Human
Conjugation	Methylated
Notes	Recombinant histones are suitable for use as positive controls in the analysis of histone post- translational modifications, as substrates for histone modification enzymes, or to generate chromatin in vitro.
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80 degree C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage. Shipping Temp: Dry Ice

IMAGES



WB (Western Blot)

Western Blot analysis for Recombinant Histone H3K79me3 (MLA) Recombinant Histone H3K27me3 (MLA) (Lane 1) and Histone H3.1 (Lane 2) were detected with H3K79me2me3 antibody . Histones stained by coomassie blue below were as loading control.



SDS-PAGE

Recombinant Histone H3K79me3 (MLA) gel. Histone H3K79me3 (MLA) was run on a 12.5% SDS- PAGE gel and stained with Coomassie Blue. MW: 15.3 kDa Purity: > 90%

ADDITIONAL INFORMATION

Related Product Information for H3K79me3 recombinant protein	Short Description: Recombinant human Histone H3 trimethyl Lys79 (H3K79me3)(accession number NP_003520.1) was expressed in E Coli and contains two substitutions (cysteine to serine at amino acid 96 and cysteine to alanine at amino acid 110). Recombinant methylated histones are specifically methylated via a chemical alkylation reaction that introduces a methyl lysine analog (MLA). The molecular weight of the recombinant histone is 15,285 Daltons. The recombinant histone is >92% pure by SDS-PAGE. Recombinant histones are suitable for use as positive controls in the analysis of histone post-translational modifications, as substrates for histone modification enzymes, or to generate chromatin in vitro. Background: Histone H3 is one of the core components of the nucleosome. The nucleosome is the smallest subunit of chromatin and consists of 146 base pairs of DNA wrapped around an octamer of core histone proteins (two each of H2A, H2B, H3 and H4). Histone H1 is a linker protein, present at the interface between the nucleosome core and DNA entry/exit points. Recombinant Histone H3K79me3 (MLA) has been generated using the patented Methylated Lysine Analog (MLA) technology. In MLA, methylated histones are generated via a chemical alkylation reaction that substitutes a methylated analog of lysine, aminoethylcysteine, for the existing lysine at the desired residue. Aminoethylcysteine is structurally and chemically similar to lysine, though it contains a sulfide substitution in place of the lysine ϵ-methylene. The MLA technique provides precise control over the site and degree of methylation. The MLA technology is covered under U.S. Patent No. 8,278,112.
Product Categories/Family for H3K79me3 recombinant protein	Recombinant Proteins; Histone

NCBI AND UNIPROT INFORMATION

NCBI GI #	4504281
NCBI GeneID	8350
NCBI Accession #	NP_003520.1
NCBI GenBank Nucleotide #	NM_003529.2
UniProt Accession #	P68431; P02295; P02296; P16106; Q6ISV8; Q6NWP8; Q6NWP9; Q6NXU4; Q71DJ3; Q93081; A0PJT7; A5PLR1
Molecular Weight	15,404 Da
NCBI Official Full Name	histone H3.1
NCBI Official Synonym Full Names	histone cluster 1, H3a
NCBI Official Symbol	HIST1H3A
NCBI Official Synonym Symbols	H3/A; H3FA
NCBI Protein Information	histone H3.1; histone H3/a; histone 1, H3a; H3 histone family, member A
UniProt Protein Name	Histone H3.1
UniProt Gene Name	HIST1H3A
UniProt Synonym Gene Names	H3FA
UniProt Entry Name	H31_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.