

Histone H3K9me3 (1-15)

Cat. No.:	HY-P10111
CAS No.:	951011-30-6
Molecular Formula:	$C_{66}H_{124}N_{25}O_{21}^{+}$
Molecular Weight:	1603.85
Sequence:	Ala-Arg-Thr-Lys-Gln-Thr-Ala-Arg-{Lys(Me3)}-Ser-Thr-Gly-Gly-Lys-Ala
Sequence Shortening:	ARTKQTAR-{Lys(Me3)}-STGGKA
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description

Histone H3K9me3 (1-15) (H3(1-15)K9me3) is a histone posttranslational modification (PTM) that has emerged as hallmark of pericentromeric heterochromatin. Trimethylation of histone H3 at lysine 9 is associated with gene repression, prevents transcription factor binding^{[1][2]}.

REFERENCES

[1]. Woon EC, et al. Linking of 2-oxoglutarate and substrate binding sites enables potent and highly selective inhibition of JmjC histone demethylases. *Angew Chem Int Ed Engl.* 2012 Feb 13;51(7):1631-4.

[2]. Mosch K, et al. HP1 recruits activity-dependent neuroprotective protein to H3K9me3 marked pericentromeric heterochromatin for silencing of major satellite repeats. *PLoS One.* 2011 Jan 18;6(1):e15894.

Caution: Product has not been fully validated for medical applications. For research use only.

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