H3K4(Me2) (1-20)

Cat. No.: HY-P2256

Molecular Formula: $C_{93}H_{171}N_{35}O_{27}$

Molecular Weight: 2211.61

Sequence: Ala-Arg-Thr-{Lys(Me2)}-Gln-Thr-Ala-Arg-Lys-Ser-Thr-Gly-Gly-Lys-Ala-Pro-Arg-Lys-Gln-Leu ART-{Lys(Me2)}-QTARKSTGGKAPRKQL

Sequence Shortening: ART-{Lys(Me2)}-QTARKSTGGKAPRKQL

Target: Others

Pathway: Others

Storage: Sealed storage, away from moisture and light, under nitrogen
Powder -80°C 2 years
-20°C 1 year
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light, under nitrogen)

SOLVENT & SOLUBILITY

In Vitro

H_2O : 25 mg/mL (11.30 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	0.4522 mL	2.2608 mL	4.5216 mL
	5 mM	0.0904 mL	0.4522 mL	0.9043 mL
	10 mM	0.0452 mL	0.2261 mL	0.4522 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

H3K4(Me2) (1-20) is a histone peptide. H3K4me2 regulates the recovery of protein biosynthesis and homeostasis following DNA damage[1][2].

REFERENCES

[1]. Mulder KW, et al. Regulation of histone H3K4 tri-methylation and PAF complex recruitment by the Ccr4-Not complex. Nucleic Acids Res. 2007;35(7):2428-2439.

[2]. Wang S, et al. H3K4me2 regulates the recovery of protein biosynthesis and homeostasis following DNA damage. Nat Struct Mol Biol. 2020;27(12):1165-1177.

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

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