

AKTide-2T

Cat. No.:	HY-P1115
CAS No.:	324029-01-8
Molecular Formula:	C ₇₄ H ₁₁₄ N ₂₈ O ₂₀
Molecular Weight:	1715.87
Sequence:	Ala-Arg-Lys-Arg-Glu-Arg-Thr-Tyr-Ser-Phe-Gly-His-His-Ala
Sequence Shortening:	ARKRERTYSFGHHA
Target:	Akt
Pathway:	PI3K/Akt/mTOR
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

ARKRERTYSFGHHA

BIOLOGICAL ACTIVITY

Description	AKTide-2T is an excellent in vitro substrate for AKT and shows competitive inhibition of histone H2B phosphorylation with a K _i of 12 nM. AKTide-2T mimics the optimal phosphorylation sequence of Akt and is an inhibitory peptide with the wildtype AKTide lacking Thr in the S22 position ^[1] .
IC ₅₀ & Target	Akt
In Vitro	AKTide-2T mimics the optimal phosphorylation sequence of Akt, and inhibits Akt phosphorylated Hsp27 by addition of 20 μM Akt inhibitory peptide ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. T Obata, et al. Peptide and protein library screening defines optimal substrate motifs for AKT/PKB. J Biol Chem. 2000 Nov 17;275(46):36108-15.
- [2]. Madhavi J Rane, et al. Heat shock protein 27 controls apoptosis by regulating Akt activation. J Biol Chem. 2003 Jul 25;278(30):27828-35.

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

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