

PKI(5-24)

Cat. No.:	HY-P0222
CAS No.:	99534-03-9
Molecular Formula:	C ₉₄ H ₁₄₈ N ₃₂ O ₃₁
Molecular Weight:	2222.38
Sequence:	Thr-Thr-Tyr-Ala-Asp-Phe-Ile-Ala-Ser-Gly-Arg-Thr-Gly-Arg-Arg-Asn-Ala-Ile-His-Asp
Sequence Shortening:	TTYADFIASGRTGRRNAIHD
Target:	PKA
Pathway:	Protein Tyrosine Kinase/RTK; Stem Cell/Wnt
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	PKI(5-24) is a potent, competitive, and synthetic peptide inhibitor of PKA (cAMP-dependent protein kinase), with a K _i of 2.3 nM. PKI(5-24) corresponds to residues 5-24 in the naturally occurring heat-stable protein kinase inhibitor ^{[1][2]} .
In Vitro	PKI(5-24) is a 20-residue peptide has been synthesized that corresponds to the active site of the skeletal muscle inhibitor protein ^[1] . PKI(5-24) inhibits phosphotransferase activity of the mutant cGMP kinase with higher potency than that of wild type, with K _i values of 42 μM and 160 μM, respectively ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Cheng HC, et al. A potent synthetic peptide inhibitor of the cAMP-dependent protein kinase. J Biol Chem. 1986;261(3):989-992.

[2]. Ruth P, et al F. A cGMP kinase mutant with increased sensitivity to the protein kinase inhibitor peptide PKI(5-24). Biol Chem. 1996;377(7-8):513-520.

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

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