

PKA Inhibitor Fragment (6-22) amide

Cat. No.:	HY-P1290
CAS No.:	121932-06-7
Molecular Formula:	C ₈₀ H ₁₃₀ N ₂₈ O ₂₄
Molecular Weight:	1868.06
Sequence Shortening:	TYADFIASGRTGRRNAI-NH2
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	PKA Inhibitor Fragment (6-22) amide is an inhibitor of cAMP-dependent protein kinase A (PKA), with a K _i of 2.8 nM. PKA Inhibitor Fragment (6-22) amide can significantly reverse low-level morphine antinociceptive tolerance in mice ^{[1][2]} .
IC ₅₀ & Target	PKA 2.8 nM (K _i)

REFERENCES

[1]. Katz BM, et, al. Synthesis, characterization and inhibitory activities of (4-N3[3,5-3H]Phe10)PKI(6-22)amide and its precursors: photoaffinity labeling peptides for the active site of cyclic AMP-dependent protein kinase. *Int J Pept Protein Res.* 1989 Jun;33(6):439

[2]. Dalton GD, et, al. Alterations in brain Protein Kinase A activity and reversal of morphine tolerance by two fragments of native Protein Kinase A inhibitor peptide (PKI). *Neuropharmacology.* 2005 Apr; 48(5): 648-57.

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

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