PKA Inhibitor Fragment (6-22) amide TFA

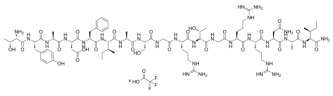
Cat. No.: HY-P1290A

Molecular Formula: $C_{80}H_{130}N_{28}O_{24}.xC_2HF_3O_2$

Sequence Shortening: TYADFIASGRTGRRNAI-NH2

Target: PKA

Pathway: Stem Cell/Wnt



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 : 50 mg/mL (Need ultrasonic)

BIOLOGICAL ACTIVITY

Description	PKA Inhibitor Fragment (6-22) amide TFA is an inhibitor of cAMP-dependent protein kinase A (PKA), with a K_i of 2.8 nM. PKA Inhibitor Fragment (6-22) amide TFA can significantly reverse antinociceptive tolerance in mice[1][2].
IC_{50} & Target	PKA 2.8 nM (Ki)

CUSTOMER VALIDATION

- Theranostics. 2021 Mar 24;11(12):5650-5674.
- Elife. 2023 Jan 16;12:e81438.

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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):439-45.

[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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