TAT-MEK1

Cat. No.:	HY-P10074
CAS No.:	566872-16-0
Molecular Formula:	$C_{136}H_{241}N_{53}O_{31}S$
Molecular Weight:	3146.77
Sequence:	Gly-Tyr-Gly-Arg-Lys-Lys-Arg-Arg-Gln-Arg-Arg-Arg-Gly-Met-Pro-Lys-Lys-Lys-Pro-Thr-Pro-Ile-Gln-Leu-Asn-Pro-NH2
Sequence Shortening:	GYGRKKRRQRRRGMPKKKPTPIQLNP-NH2
Target:	ERK
Pathway:	MAPK/ERK Pathway; Stem Cell/Wnt
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	TAT-MEK1 is an inhibitor ofERK2, consisting of TAT and MEK1 (N-terminal), TAT (YGRKKRRQRRR) derived from human immunodeficiency (HIV-1) transcriptional trans activator (TAT), is a cell-penetrating peptide. TAT-MEK1 IC_{50} in vitro for ERK2 is 29 μM[1][2].
In Vitro	TAT-MEK1 (100 μM, 30 min) can inhibit luciferase activity in NIH.3T3 and PC12 cells , and inhibit the activation of ERK2sup>[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only. Western Blot Analysis[2]

Cell Line:	NIH 3T3 and PC12
Concentration:	100 μM
Incubation Time:	30 min
Result:	Inhibited luciferase activity in cells and the activity of ERK2.

REFERENCES

[1]. Lukanowska M, et al. Bioportides: bioactive cell-penetrating peptides that modulate cellular dynamics. Biotechnol J. 2013 Aug;8(8):918-30.

[2]. Kelemen BR, et al. Selective in vivo inhibition of mitogen-activated protein kinase activation using cell-permeable peptides. J Biol Chem. 2002 Mar 8;277(10):8741-8.

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

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