

st-Ht31

Cat. No.:	HY-P2624
CAS No.:	188425-80-1
Molecular Formula:	C ₁₂₉ H ₂₁₇ N ₂₉ O ₃₉
Molecular Weight:	2798.32
Sequence:	{N-Stearate}-Leu-Ile-Glu-Glu-Ala-Ala-Ser-Arg-Ile-Val-Asp-Ala-Val-Ile-Glu-Gln-Val-Lys-Ala-Ala-Gly-Ala-Tyr
Sequence Shortening:	{N-Stearate}-LIEEAASRIVDAVIEQVKAAGAY
Target:	PAK
Pathway:	Cell Cycle/DNA Damage; Cytoskeleton
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	st-Ht31 is a membrane-permeable peptide inhibitor of protein kinase A (PKA) anchoring. st-Ht31 induces robust cholesterol/phospholipid efflux. st-Ht31 completely reverses foam cell formation and restores the metabolic health of macrophage ^{[1][2]} .								
In Vitro	<p>st-Ht31 (5 μM; 2 h) enhances cholesterol/phospholipid efflux in BHK cells and RAW macrophages^[1]. st-Ht31 (10 μM; 24 h) reverses foam cell formation and restores metabolic health of macrophage^[1]. st-Ht31 (20 μM; 20 min) abolishes the cAMP inhibition of PMA-induced ERK1/2 activation in HEK293T cells^[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Western Blot Analysis^[2]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>HEK293T cells</td> </tr> <tr> <td>Concentration:</td> <td>20 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>20 min</td> </tr> <tr> <td>Result:</td> <td>Abolished the cAMP inhibition of PMA-induced ERK1/2 activation.</td> </tr> </table>	Cell Line:	HEK293T cells	Concentration:	20 μM	Incubation Time:	20 min	Result:	Abolished the cAMP inhibition of PMA-induced ERK1/2 activation.
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Result:	Abolished the cAMP inhibition of PMA-induced ERK1/2 activation.								

REFERENCES

[1]. Ma L, et al. Ht31, a protein kinase A anchoring inhibitor, induces robust cholesterol efflux and reverses macrophage foam cell formation through ATP-binding cassette transporter A1. *J Biol Chem.* 2011 Feb 4;286(5):3370-8.

[2]. Rahamim Ben-Navi L, et al. A-Kinase Anchoring Protein 4 (AKAP4) is an ERK1/2 substrate and a switch molecule between cAMP/PKA and PKC/ERK1/2 in human spermatozoa. *Sci Rep.* 2016 Nov 30;6:37922.

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

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