

st-Ht31 ammonium

Cat. No.:	HY-P2624A	
Molecular Formula:	C ₁₂₉ H ₂₁₇ N ₂₉ O ₃₉ .xNH ₃	
Sequence:	{N-Stearate}-Asp-Leu-Ile-Glu-Glu-Ala-Ala-Ser-Arg-Ile-Val-Asp-Ala-Val-Ile-Glu-Gln-Val-Lys-Ala-Ala-Gly-Ala-Tyr	{N-Stearate}-Asp-Leu-Ile-Glu-Glu-Ala-Ala-Ser-Arg-Ile-Val-Asp-Ala-Val-Ile-Glu-Gln-Val-Lys-Ala-Ala-Gly-Ala-Tyr (ammonium salt)
Sequence Shortening:	{N-Stearate}-DLIEEAASRIVDAVIEQVKAAGAY	
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 ammonium is a membrane-permeable peptide inhibitor of protein kinase A (PKA) anchoring. st-Ht31 ammonium induces robust cholesterol/phospholipid efflux. st-Ht31 ammonium completely reverses foam cell formation and restores the metabolic health of macrophage ^{[1][2]} .
In Vitro	st-Ht31 (5 μM; 2 h) ammonium enhances cholesterol/phospholipid efflux in BHK cells and RAW macrophages ^[1] . st-Ht31 (10 μM; 24 h) ammonium reverses foam cell formation and restores metabolic health of macrophage ^[1] . st-Ht31 (20 μM; 20 min) ammonium 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.

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]. 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.
- [3]. 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.
- [4]. 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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