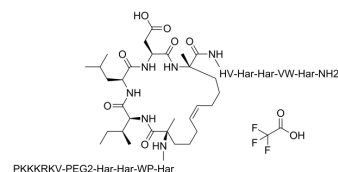


NLS-StAx-h TFA

Cat. No.:	HY-P2272A
Molecular Formula:	C ₁₆₂ H ₂₇₆ F ₃ N ₅₅ O ₃₁
Molecular Weight:	3559.28
Target:	β-catenin; Wnt
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	DMSO : 100 mg/mL (28.10 mM; Need ultrasonic)					
	Preparing Stock Solutions	<div><div>Solvent</div><div>Concentration</div></div>	Mass	1 mg	5 mg	10 mg
		1 mM	0.2810 mL	1.4048 mL	2.8096 mL	
		5 mM	0.0562 mL	0.2810 mL	0.5619 mL	
		10 mM	0.0281 mL	0.1405 mL	0.2810 mL	
Please refer to the solubility information to select the appropriate solvent.						

BIOLOGICAL ACTIVITY

Description	NLS-StAx-h TFA is a selective, cell permeable, stapled peptide Wnt signaling inhibitor with an IC ₅₀ of 1.4 μM. NLS-StAx-h TFA efficiently inhibits β-catenin-transcription factor interactions. NLS-StAx-h TFA shows anti-proliferation of cancer cells ^{[1][2]} .					
IC ₅₀ & Target	IC ₅₀ : 1.4 μM (Wnt) ^[1]					
In Vitro	NLS-StAx-h (10 μM; 72 h) inhibits proliferation of colorectal cancer cells ^[1] .					
	NLS-StAx-h (5 and 10 μM; 24 h) inhibits migration of colorectal cancer cells ^[1] .					
	MCE has not independently confirmed the accuracy of these methods. They are for reference only.					
	Cell Proliferation Assay ^[1]					
	<table> <tr> <td>Cell Line:</td><td>SW-480 and DLD-1 cells</td></tr> <tr> <td>Concentration:</td><td>10 μM</td></tr> <tr> <td>Incubation Time:</td><td>72 hr</td></tr> </table>	Cell Line:	SW-480 and DLD-1 cells	Concentration:	10 μM	Incubation Time:
Cell Line:	SW-480 and DLD-1 cells					
Concentration:	10 μM					
Incubation Time:	72 hr					

Result:	Reduced the viability of both SW-480 and DLD-1 by more than 80%.
Cell Migration Assay ^[1]	
Cell Line:	DLD-1 cells
Concentration:	5 and 10 μ M
Incubation Time:	24 hr
Result:	Resulted in dose-dependent inhibition of wound closure (wound closure: 52% at 5 μ M, and 24% at 10 μ M).

REFERENCES

[1]. Dietrich L, et al. Cell Permeable Stapled Peptide Inhibitor of Wnt Signaling that Targets β -Catenin Protein-Protein Interactions. Cell Chem Biol. 2017 Aug 17;24(8):958-968.e5.

[2]. Wang Z, et al. Direct targeting of β -catenin in the Wnt signaling pathway: Current progress and perspectives. Med Res Rev. 2021 Jul;41(4):2109-2129.

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

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