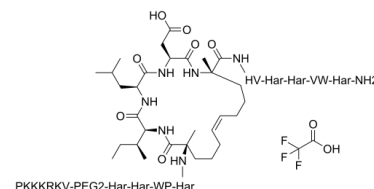


Data Sheet

Product Name:	NLS-StAx-h (TFA)
Cat. No.:	CS-0616920
Molecular Formula:	C ₁₆₂ H ₂₇₆ F ₃ N ₅₅ O ₃₁
Molecular Weight:	3559.28
Target:	Wnt; β-catenin
Pathway:	Stem Cell/Wnt
Solubility:	10 mM in DMSO



BIOLOGICAL ACTIVITY:

NLS-StAx-h TFA is a selective, cell permeable, stapled peptide **Wnt** signaling inhibitor with an **IC₅₀** 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]}. IC₅₀ & Target:IC₅₀: 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].

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.

CAIndexNames:

NLS-StAx-h (TFA)

SMILES:

OC(C[C@H](NC([C@H](CC(C)C)NC([C@H]([C@@H](C)CC)N1)=O)=O)C(N[C@@](C(NC)=O)(C)CCC/C=C\CCC[C@](C)(NC)C1=O)=O.O.[VH]N[C@H](C(N[C@H](C([V]W)N[C@H](C(N)=O)CCCCNC(N)=N)=O)CCCCNC(N)=N)=O)CCCCNC(N)=N.N.O=C(F)(F)F.O.[PKKKRKV-PEG2-Har-Har-WP-Har]

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

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