
Product Data Sheet

Product Name: NLS-StAx-h TFA

Cat. No.: GC67737

Chemical Properties

Cas. No.

Formula C₁₆₂H₂₇₆F₃N₅₅O₃₁

M.Wt 3559.28

Solubility

Storage

Store at -20°C

General tips

For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Background

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]}.

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].

Cell Proliferation Assay^[1]

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%.

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

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Cell Migration Assay [1]

Cell Line: DLD-1 cells

Concentration: 5 and 10 μ MIncubation
Time: 24 hrResult: Resulted in dose-dependent inhibition of wound closure (wound closure: 52% at 5 μ M, and 24% at 10 μ M).

[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.

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