

NLS-StAx-h TFA

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| 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) |

BIOLOGICAL ACTIVITY

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|-------------------------------------|---|--|------------|------------------------|----------------|-------|------------------|-------|---------|--|------------|-------------|----------------|-------------|------------------|-------|---------|--|
| 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]} . | | | | | | | | | | | | | | | | | |
| IC₅₀ & Target | IC ₅₀ : 1.4 μM (Wnt) ^[1] | | | | | | | | | | | | | | | | | |
| In Vitro | <p>NLS-StAx-h (10 μM; 72 h) inhibits proliferation of colorectal cancer cells^[1].</p> <p>NLS-StAx-h (5 and 10 μM; 24 h) inhibits migration of colorectal cancer cells^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Proliferation Assay^[1]</p> <table border="1"> <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> <tr> <td>Result:</td> <td>Reduced the viability of both SW-480 and DLD-1 by more than 80%.</td> </tr> </table> <p>Cell Migration Assay^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>DLD-1 cells</td> </tr> <tr> <td>Concentration:</td> <td>5 and 10 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>24 hr</td> </tr> <tr> <td>Result:</td> <td>Resulted in dose-dependent inhibition of wound closure (wound closure: 52% at 5 μM, and 24% at 10 μM).</td> </tr> </table> | | 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 Line: | DLD-1 cells | Concentration: | 5 and 10 μM | Incubation Time: | 24 hr | Result: | Resulted in dose-dependent inhibition of wound closure (wound closure: 52% at 5 μM, and 24% at 10 μM). |
| 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 Line: | DLD-1 cells | | | | | | | | | | | | | | | | | |
| Concentration: | 5 and 10 μM | | | | | | | | | | | | | | | | | |
| Incubation Time: | 24 hr | | | | | | | | | | | | | | | | | |
| Result: | Resulted in dose-dependent inhibition of wound closure (wound closure: 52% at 5 μM, and 24% at 10 μM). | | | | | | | | | | | | | | | | | |

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-

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

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