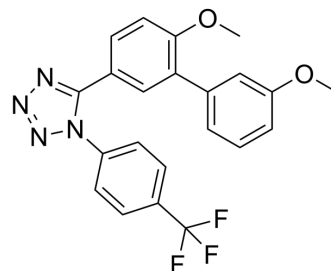


Aha1/Hsp90-IN-1

Cat. No.:	HY-151337
CAS No.:	2768265-58-1
Molecular Formula:	C ₂₂ H ₁₇ F ₃ N ₄ O ₂
Molecular Weight:	426.39
Target:	Microtubule/Tubulin
Pathway:	Cell Cycle/DNA Damage; Cytoskeleton
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Aha1/Hsp90-IN-1 (Compound 17) is an Aha1/Hsp90 complex inhibitor. Aha1/Hsp90-IN-1 disrupts Aha1/Hsp90 interactions with an IC ₅₀ of 3.32 μM. Aha1/Hsp90-IN-1 inhibits tau aggregation ^[1] .								
IC₅₀ & Target	IC ₅₀ : 3.32 μM (Aha1/Hsp90 interactions) ^[1]								
In Vitro	<p>Aha1/Hsp90-IN-1 (Compound 17) (10 μM; 24 h) disrupts the Aha1/Hsp90 complex without direct inhibition of Hsp90 protein folding activity^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Western Blot Analysis^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>SH-SY5Y neuroblastoma cells and Her2 overexpressing SK-BR-3 breast cancer cells</td> </tr> <tr> <td>Concentration:</td> <td>10 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>24 h</td> </tr> <tr> <td>Result:</td> <td>Exhibited the ability to disrupt interactions between Aha1 and Hsp90. Did not induce the degradation of Hsp90 client proteins Her2 (in SK-BR-3 cells), Cdk6, or pAkt^{S473} (in SH SY5Y cells), nor do they induce the expression of Hsp70, a marker of the heat shock response.</td> </tr> </table>	Cell Line:	SH-SY5Y neuroblastoma cells and Her2 overexpressing SK-BR-3 breast cancer cells	Concentration:	10 μM	Incubation Time:	24 h	Result:	Exhibited the ability to disrupt interactions between Aha1 and Hsp90. Did not induce the degradation of Hsp90 client proteins Her2 (in SK-BR-3 cells), Cdk6, or pAkt ^{S473} (in SH SY5Y cells), nor do they induce the expression of Hsp70, a marker of the heat shock response.
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REFERENCES

[1]. Keegan BM, et al. Synthesis and Evaluation of Small Molecule Disruptors of the Aha1/Hsp90 Complex for the Reduction of Tau Aggregation. ACS Med Chem Lett. 2022 Apr 15;13(5):827-832.

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

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