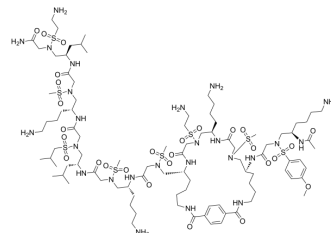


Ubiquitination-IN-2

Cat. No.:	HY-152266
Molecular Formula:	C ₉₃ H ₁₇₃ N ₂₅ O ₂₈ S ₈
Molecular Weight:	2346.04
Target:	E1/E2/E3 Enzyme
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Ubiquitination-IN-2 is a potent E1-E2 protein-protein interactions (PPI) inhibitor. Ubiquitination-IN-2 has a K _d value of 0.72 μM for ubiquitin E1 (Uba1). Ubiquitination-IN-2 inhibits blocks ubiquitin transfer from E1 to E2. Ubiquitination-IN-2 can be used in research of cancer ^[1] .								
In Vitro	<p>Ubiquitination-IN-2 (M1-S1; 0-50 μM; 16 h; HEK293T cells) inhibits ubiquitin transfer to substrate protein CDK4 by blocking its monoubiquitination catalyzed by CHIP^[1].</p> <p>Ubiquitination-IN-2 (0-50 μM; HEK293T cells) inhibits the protein ubiquitination cascade by binding with Uba1, the E1 enzyme, and blocking ubiquitin transfer from E1 to E2^[1].</p> <p>Ubiquitination-IN-2 (0-50 μM; HEK293T cells) inhibits ubiquitin transfer to different types of E2 enzymes and inhibits the formation of E2-UB conjugates at 50 μM concentration^[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" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Cell Line:</td> <td>HEK293T cells</td> </tr> <tr> <td>Concentration:</td> <td>0, 10, 50 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>16 hours</td> </tr> <tr> <td>Result:</td> <td>Inhibitd the ubiquitination of CDK4 in HEK293T cells.</td> </tr> </table>	Cell Line:	HEK293T cells	Concentration:	0, 10, 50 μM	Incubation Time:	16 hours	Result:	Inhibitd the ubiquitination of CDK4 in HEK293T cells.
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REFERENCES

[1]. Zhou L, et, al. Inhibition of the Ubiquitin Transfer Cascade by a Peptidomimetic Foldamer Mimicking the E2 N-Terminal Helix. J Med Chem. 2023 Jan 12;66(1):491-502.

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

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