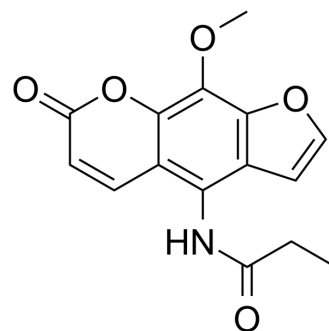


HER2-IN-10

Cat. No.:	HY-151116
CAS No.:	1059177-03-5
Molecular Formula:	C ₁₅ H ₁₃ NO ₅
Molecular Weight:	287.27
Target:	Apoptosis
Pathway:	Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	HER2-IN-10 is a psoralen derivative. HER2-IN-10 has anti-breast cancer activity and light-activated cytotoxicity. HER2-IN-10 induces apoptosis ^[1] .								
In Vitro	<p>HER2-IN-10 (50 μM) has phototoxicity against SK-BR-3 cells with the IC₅₀ of 3.05 μM^[1].</p> <p>HER2-IN-10 (1-50 μM; 48 h) changes the morphology of the SK-BR-3 cells under UVA irradiation and increases the apoptotic index^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Apoptosis Analysis^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>SK-BR-3 cells</td> </tr> <tr> <td>Concentration:</td> <td>1, 2.5, 5, 10, 20 and 50 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>48 hours</td> </tr> <tr> <td>Result:</td> <td>Broken down cells into apoptotic bodies at higher concentrations (10, 20, and 50 μM) and cell shrinkage, plasma membrane blebbing at lower concentrations (1, 2.5, and 5 μM).</td> </tr> </table>	Cell Line:	SK-BR-3 cells	Concentration:	1, 2.5, 5, 10, 20 and 50 μM	Incubation Time:	48 hours	Result:	Broken down cells into apoptotic bodies at higher concentrations (10, 20, and 50 μM) and cell shrinkage, plasma membrane blebbing at lower concentrations (1, 2.5, and 5 μM).
Cell Line:	SK-BR-3 cells								
Concentration:	1, 2.5, 5, 10, 20 and 50 μM								
Incubation Time:	48 hours								
Result:	Broken down cells into apoptotic bodies at higher concentrations (10, 20, and 50 μM) and cell shrinkage, plasma membrane blebbing at lower concentrations (1, 2.5, and 5 μM).								

REFERENCES

[1]. Aekrungrueangkit C, et, al. Novel psoralen derivatives as anti-breast cancer agents and their light-activated cytotoxicity against HER2 positive breast cancer cells. Sci Rep. 2022 Aug 5;12(1):13487.

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

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