HER2-IN-11

Cat. No.: HY-151118

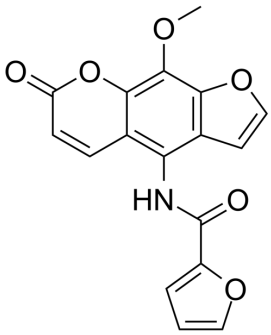
Molecular Formula: $C_{17}H_{11}NO_6$

Molecular Weight: 325.27

Target: Apoptosis

Pathway: Apoptosis

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

HER2-IN-11 is a psoralen derivative. HER2-IN-11 has anti-breast cancer activity and light-activated cytotoxicity. HER2-IN-11 induces apoptosis[1].

In Vitro

HER2-IN-11 (50 μM) has phototoxicity against SK-BR-3 cells with the IC_{50} of 2.71 μM[1].

HER2-IN-11 (1-50 μM; 48 h) changes the morphology of the SK-BR-3 cells under UVA irradiation and increases the apoptotic index[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Apoptosis Analysis[1]

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.

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