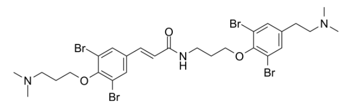
MCE
MedChemExpress

Product Data Sheet

Psammaplysene A

Cat. No.:	HY-111299
CAS No.:	850013-02-4
Molecular Formula:	$C_{27}H_{35}Br_4N_3O_3$
Molecular Weight:	769.2
Target:	Apoptosis
Pathway:	Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Psammaplysene A, a brominated tyrosine derivative, can promote the nuclear localization of FOXO1, leading to cell cycle arrest and apoptosis, and can be used in cancer research[1].

In Vitro

Psammaplysene A (1-1000 nM, 24 h) can induce apoptosis of endometrial cancer cells Ishikawa and ECC1, and affect cell viability and cycle distribution[1].

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

Cell Viability Assay[1]

Cell Line:	Ishikawa and ECC1 cells
Concentration:	1 nM, 10 nM, 100 nM and 1 μM
Incubation Time:	24 h
Result:	Increased nuclear FOXO1 protein levels in both cell lines at a concentration of 1 μM. Did not significantly affect cell viability at a concentration of 100 nM, but significantly reduced the number of viable cells by approximately 5-fold at 1 μM.

Cell Cycle Analysis[1]

Cell Line:	Ishikawa and ECC1 cells
Concentration:	100 nM, 500 nM, and 1 μM
Incubation Time:	24 h
Result:	Significantly increased the percentage of cells in G2/M phase in both cell lines at 1 μM.

REFERENCES

[1]. Emily Berry, et al. Induction of apoptosis in endometrial cancer cells by psammaplysene A involves FOXO1. Gynecol Oncol. 2009 Feb;112(2):331-6.

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

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