MCE MedChemExpress

Product Data Sheet

Antiproliferative agent-42

 Cat. No.:
 HY-155402

 CAS No.:
 3002404-74-9

 Molecular Formula:
 C₁₈H₁₃N₅O₄

 Molecular Weight:
 363.33

Target: Caspase; Apoptosis

Pathway: Apoptosis

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

Analysis.

BIOLOGICAL ACTIVITY

Description Antiproliferative agent-42 (compound 7m) is a dihydrodipyrrolo compound. Antiproliferative agent-42 showed antiproliferative activity against Panc-1 cell line with an IC₅₀ value of 12.54 µM^[1].

In Vitro Antiproliferative agent-42 (0-100 μ M, 48 h) can inhibit Panc-1 and PC3 as well as MDA-MB-231 cell lines with IC₅₀ values of 12.5 μ M, 17.7 μ M, and 13.1 μ M, respectively^[1].

Antiproliferative agent-42 (12.54 μM, 48 h) can induce sub-G1 phase arrest in Panc-1 cancer cells^[1].

Antiproliferative agent-42 (12.54 μ M) turns down the protein lever of cleaved-caspase-3 and caspase-3 in Panc-1 cancer cells, while the protein lever of pro-caspase-3 retains unchanged in Panc-1 cancer cells [1].

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

Apoptosis Analysis^[1]

Cell Line:	Panc-1
Concentration:	12.54 μΜ
Incubation Time:	48 h
Result:	Induced apoptosis at 15.54 μM concentration (11.1%).

REFERENCES

[1]. Lish A B,et al. Synthesis and Biological Evaluation of 12-Aryl-11-hydroxy-5,6-dihydropyrrolo[2",1":3',4']pyrazino[1',2':1,5]pyrrolo[2,3\d]pyridazine-8(9H)\d]one Derivatives as Potential Cytotoxic Agents [J].[2023-11-08].

[2]. Barghi Lish, Azam, et al. "Synthesis and Biological Evaluation of 12-Aryl-11-hydroxy-5, 6-dihydropyrrolo [2", 1": 3', 4'] pyrazino [1', 2': 1, 5] pyrrolo [2, 3-d] pyridazine-8 (9 H)-one Derivatives as Potential Cytotoxic Agents." ACS Omega (2023).

 $\label{lem:caution:Product} \textbf{Caution: Product has not been fully validated for medical applications. For research use only.}$

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Page 2 of 2 www.MedChemExpress.com