## Antiproliferative agent-42

Cat. No.:	HY-155402	Q-
CAS No.:	3002404-74-9	N,*
Molecular Formula:	C <sub>18</sub> H <sub>13</sub> N <sub>5</sub> O <sub>4</sub>	
Molecular Weight:	363.33	
Target:	Caspase; Apoptosis	
Pathway:	Apoptosis	<sup>N</sup> √ NH
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	→−NH O

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 IC <sub>50</sub> value of 12.54 μM <sup>[1]</sup> .			
In Vitro	Antiproliferative agent-42 (0-100 μM, 48 h) can inhibit Panc-1 and PC3 as well as MDA-MB-231 cell lines with IC <sub>50</sub> values of 12.5 μM, 17.7 μM, and 13.1 μM, respectively <sup>[1]</sup> . Antiproliferative agent-42 (12.54 μM, 48 h) can induce sub-G1 phase arrest in Panc-1 cancer cells <sup>[1]</sup> . Antiproliferative agent-42 (12.54 μM) 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 <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Apoptosis Analysis <sup>[1]</sup>			
	Cell Line:	Panc-1		
	Concentration:	12.54 μΜ		
	Incubation Time:	48 h		
	Result:	Induced apoptosis at 15.54 $\mu\text{M}$ 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[2,31]pyridazine-8(9H) to 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).



## Product Data Sheet

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

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