## ChoKα inhibitor-5

Cat. No.:	HY-152195	
Molecular Formula:	$C_{54}H_{58}Br_2N_4S_4$	
Molecular Weight:	1061.21	Br
Target:	Apoptosis	S S S S S S
Pathway:	Apoptosis	N <sup>+</sup> Br
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

BIOLOGICAL ACTIV			
Description	ChoK $\alpha$ inhibitor-5 is a sulphur-containing choline kinase inhibitor. ChoK $\alpha$ inhibitor-5 can inhibit HChoK $\alpha$ 1 with an IC <sub>50</sub> value of 0.64 $\mu$ M. ChoK $\alpha$ inhibitor-5 also can induce apoptosis. ChoK $\alpha$ inhibitor-5 can be used for the research of cancer <sup>[1]</sup> .		
IC <sub>50</sub> & Target	IC50: 0.66 μM (HChoK α1);1.29 μM (A549); 4.63 μM (HeLa); 2.41 μM (HT-29); 1.92 μM (MDA-MB-231); 2.12 μM (MCF7) $^{[1]}$		
In Vitro	ChoKα inhibitor-5 (PL 69) has HChoK α1 inhibition activity with an IC <sub>50</sub> value of 0.64 μM <sup>[1]</sup> . ChoKα inhibitor-5 (1.46 μM; 72 h) can inhibit cell proliferation for A549, HeLa, HT-29, MDA-MB-231 and MCF7 cells with IC <sub>50</sub> values of 1.29 μM, 4.63 μM, 2.41 μM, 1.92 μM and 2.12 μM, respectively <sup>[1]</sup> . ChoKα inhibitor-5 (1, 5 μM; 48, 72 h) induces apoptosis in cancer cells through the mitochondrial pathway <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Proliferation Assay <sup>[1]</sup>		
	Cell Line:	HT29, A549, HeLa, HT-29, MDA-MB-231 and MCF7 cells	
	Concentration:	2.47 μΜ	
	Incubation Time:	72 h	
	Result:	Had anti-proliferative property.	
	Apoptosis Analysis <sup>[1]</sup>		
	Cell Line:	A549 and HeLa cells	
	Concentration:	1,5μΜ	
	Incubation Time:	48, 72 h	
	Result:	Induced a stronger mitochondrial depolarization in HeLa cells at early time-point treatment (24 h).	
	Western Blot Analysis <sup>[1]</sup>		
	Cell Line:	HeLa and NHA cells	

Product Data Sheet



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Concentration:	5 μΜ
Incubation Time:	48 h
Result:	Significantly reduced the expression of the anti-apoptotic protein MCL-1.

## REFERENCES

[1]. Pilar M Luque-Navarro, et al. New bioisosteric sulphur-containing choline kinase inhibitors with a tracked mode of action. Eur J Med Chem. 2023 Jan 15;246:115003.

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

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