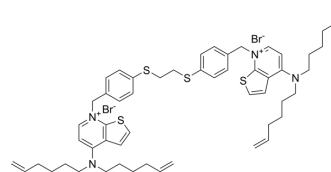


ChoK α inhibitor-4

Cat. No.:	HY-152193
Molecular Formula:	C ₅₄ H ₆₈ Br ₂ N ₄ S ₄
Molecular Weight:	1061.21
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	ChoK α inhibitor-4 is a bisosteric inhibitor of HChoK α 1 (IC ₅₀ =0.66 μ M), with inhibitory and antiproliferative effect on cancer cells. ChoK α inhibitor-4 induces apoptosis via mitochondrial pathway, and reduces anti-apoptotic proteins expression ^[1] .
IC₅₀ & Target	IC ₅₀ : 0.66 μ M (HChoK α 1) ^[1]
In Vitro	<p>ChoKα inhibitor-4 (compound PL55) shows cytotoxicity against NHA from normal human astrocytes with an IC₅₀ value of 2.5 μM^[1].</p> <p>ChoKα inhibitor-4 (1, and 5 μM; 24 h) induces cell cycle block in G1 phase in HeLa and A549 cells^[1].</p> <p>ChoKα inhibitor-4 (1, and 5 μM; 24 h) induces a strong mitochondrial depolarization in HeLa and A549 cells, and (1, and 5 μM; 48 h and 72 h) induces apoptosis^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

[1]. Luque-Navarro PM, et al. New bisosteric 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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