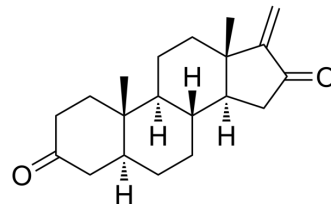


GSD-11

Cat. No.:	HY-146738
Molecular Formula:	C ₂₀ H ₂₈ O ₂
Molecular Weight:	300.44
Target:	Akt
Pathway:	PI3K/Akt/mTOR
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	GSD-11 is a potent and selective anti-austerity agent. GSD-11 inhibits the cell migration and colony formation of PANC-1 cells. GSD-11 inhibits the Akt/mTOR signaling pathway. GSD-11 has the potential for the research of pancreatic cancer[1].																
In Vitro	<p>GSD-11 (0,1, 10, 100, 1000 μM) shows potent cytotoxicity against PANC-1 cells with PC₅₀ value of 0.72 μM in nutrient-deprived medium (NDM), and IC₅₀ value of 3.5 μM in Dulbecco's modified Eagle's medium (DMEM)^[1].</p> <p>GSD-11 (10 μM, 24 h) induces morphological change in PANC-1 cells^[1].</p> <p>GSD-11 (3, 5 μM, 24 h) inhibits the migration of PANC-1 tumor cells^[1].</p> <p>GSD-11 (1, 3, 5 μM, 24 h) shows strong colony formation inhibitory effect in PANC-1 tumor cells^[1].</p> <p>GSD-11 (2.5, 5, 10 μM) inhibits the survival of PANC-1 cells through the inhibition of the Akt/mTOR pathway under NDM conditions^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Cytotoxicity Assay^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>PANC-1 cells</td> </tr> <tr> <td>Concentration:</td> <td>0,1, 10, 100, 1000 μM</td> </tr> <tr> <td>Incubation Time:</td> <td></td> </tr> <tr> <td>Result:</td> <td>Showed preferential cytotoxicity against PANC-1 cells with PC₅₀ of 0.72 μM in nutrient-deprived medium (NDM), and IC₅₀ value of 3.5 μM in Dulbecco's modified Eagle's medium (DMEM).</td> </tr> </table> <p>Western Blot Analysis^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>PANC-1 cells</td> </tr> <tr> <td>Concentration:</td> <td>2.5, 5, 10 μM</td> </tr> <tr> <td>Incubation Time:</td> <td></td> </tr> <tr> <td>Result:</td> <td>Inhibited the survival of PANC-1 cells through the inhibition of the Akt/mTOR pathway under NDM conditions.</td> </tr> </table>	Cell Line:	PANC-1 cells	Concentration:	0,1, 10, 100, 1000 μM	Incubation Time:		Result:	Showed preferential cytotoxicity against PANC-1 cells with PC ₅₀ of 0.72 μM in nutrient-deprived medium (NDM), and IC ₅₀ value of 3.5 μM in Dulbecco's modified Eagle's medium (DMEM).	Cell Line:	PANC-1 cells	Concentration:	2.5, 5, 10 μM	Incubation Time:		Result:	Inhibited the survival of PANC-1 cells through the inhibition of the Akt/mTOR pathway under NDM conditions.
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REFERENCES

[1]. Kohyama A, et al. Structure-activity relationship and mechanistic study on guggulsterone derivatives; Discovery of new anti-pancreatic cancer candidate. Bioorg Med Chem. 2022; 54:116563.

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

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