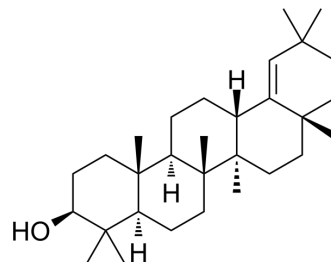


Germanicol

Cat. No.:	HY-121199
CAS No.:	465-02-1
Molecular Formula:	C ₃₀ H ₅₀ O
Molecular Weight:	426.72
Target:	Apoptosis
Pathway:	Apoptosis
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



BIOLOGICAL ACTIVITY

Description	Germanicol is a selective antineoplastic agent against human colon cancer cell lines HCT-116 and HT29 . Germanicol induces apoptosis via chromatin condensation and DNA damage ^[1] .																		
In Vitro	<p>Germanicol (0-100 μM; 6 h and 24 h) shows selective, potent and dose-dependent cytotoxicity in HCT-116 and HT29 human colon cancer cells. Germanicol induces HCT-116 and HT29 cells death in a dose-dependent manner^[1].</p> <p>Germanicol (0-100 μM; 48 h) induces HCT-116 colon cancer cells apoptosis in a dose-dependent manner^[1].</p> <p>Germanicol (0-100 μM; 0-48 h) inhibits HCT-116 colon cancer cells migration^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Viability Assay^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>Human colon cancer cell lines HCT-116 (colon), HT29 (colon) and Human colon fibroblast (CCD-18Co).</td> </tr> <tr> <td>Concentration:</td> <td>0, 5, 10, 20, 40 and 100 μM.</td> </tr> <tr> <td>Incubation Time:</td> <td>6 h and 24 h.</td> </tr> <tr> <td>Result:</td> <td>Showed insignificant cytotoxicity below 20 μM and exhibited potent and dose-dependent cytotoxic effect on both HCT-116 and HT29 colon cancer cells at higher doses over 40 μM.</td> </tr> </table> <p>Apoptosis Analysis^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>HCT-116 colon cancer cells.</td> </tr> <tr> <td>Concentration:</td> <td>0, 10, 40 and 100 μM.</td> </tr> <tr> <td>Incubation Time:</td> <td>48 h.</td> </tr> <tr> <td>Result:</td> <td>Induced potent and dose-dependent chromatin condensation, accompanied by subsequent DNA damage.</td> </tr> </table> <p>Cell Migration Assay^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>HCT-116 colon cancer cells.</td> </tr> </table>	Cell Line:	Human colon cancer cell lines HCT-116 (colon), HT29 (colon) and Human colon fibroblast (CCD-18Co).	Concentration:	0, 5, 10, 20, 40 and 100 μM.	Incubation Time:	6 h and 24 h.	Result:	Showed insignificant cytotoxicity below 20 μM and exhibited potent and dose-dependent cytotoxic effect on both HCT-116 and HT29 colon cancer cells at higher doses over 40 μM.	Cell Line:	HCT-116 colon cancer cells.	Concentration:	0, 10, 40 and 100 μM.	Incubation Time:	48 h.	Result:	Induced potent and dose-dependent chromatin condensation, accompanied by subsequent DNA damage.	Cell Line:	HCT-116 colon cancer cells.
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Concentration:	0, 10, 40 and 100 μ M.
Incubation Time:	0, 12, 24 and 48 h.
Result:	Decreased cell migration tendency.

REFERENCES

[1]. Dong L C. Germanicol induces selective growth inhibitory effects in human colon HCT-116 and HT29 cancer cells through induction of apoptosis, cell cycle arrest and inhibition of cell migration[J]. 2016.

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

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