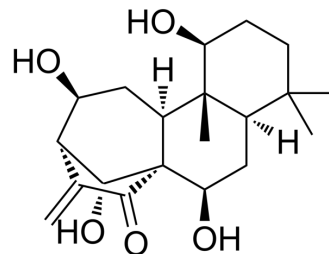


Excisanin A

Cat. No.:	HY-136699
CAS No.:	78536-37-5
Molecular Formula:	C ₂₀ H ₃₀ O ₅
Molecular Weight:	350.45
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Excisanin A is a potent anticancer agent. Excisanin A inhibits cell proliferation, migration, adhesion and invasion. Excisanin A decreases the expression of MMP-2, MMP-9, p-FAK, p-Src, integrin β1 protein. Excisanin A has the potential for the research of breast cancer ^[1] .																
In Vitro	<p>Excisanin A (5-80 μM; 24, 48, 72 h) shows antiproliferative activity in a time and dose dependent manner in MDA-MB-231, SKBR3 cells^[1].</p> <p>Excisanin A (10, 20, 40 μM; 24 h) inhibits cell migration, adhesion and invasion in MDA-MB-231, SKBR3 cells^[1].</p> <p>Excisanin A (10, 20, 40 μM; 24 h) decreases the expression of MMP-2, MMP-9, p-FAK, p-Src, integrin β1 protein in a dose dependent manner in MDA-MB-231 cells^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Proliferation Assay^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>MDA-MB-231, SKBR3 cells</td> </tr> <tr> <td>Concentration:</td> <td>5, 10, 20, 40, 80 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>24, 48, 72 h</td> </tr> <tr> <td>Result:</td> <td>Inhibited the cell growth with IC₅₀s of 22.4, 27.3 μM at 72 h for MDA-MB-231, SKBR3 cells, respectively.</td> </tr> </table> <p>Western Blot Analysis^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>MDA-MB-231 cells</td> </tr> <tr> <td>Concentration:</td> <td>10, 20, 40 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>24 h</td> </tr> <tr> <td>Result:</td> <td>Decreased the expression of MMP-2 and MMP-9 protein and mRNA level in a dose-dependent manner.</td> </tr> </table>	Cell Line:	MDA-MB-231, SKBR3 cells	Concentration:	5, 10, 20, 40, 80 μM	Incubation Time:	24, 48, 72 h	Result:	Inhibited the cell growth with IC ₅₀ s of 22.4, 27.3 μM at 72 h for MDA-MB-231, SKBR3 cells, respectively.	Cell Line:	MDA-MB-231 cells	Concentration:	10, 20, 40 μM	Incubation Time:	24 h	Result:	Decreased the expression of MMP-2 and MMP-9 protein and mRNA level in a dose-dependent manner.
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REFERENCES

[1]. Qin J, et al. A diterpenoid compound, excisanin A, inhibits the invasive behavior of breast cancer cells by modulating the integrin β 1/FAK/PI3K/AKT/ β -catenin signaling. Life Sci. 2013 Nov 4;93(18-19):655-63.

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

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