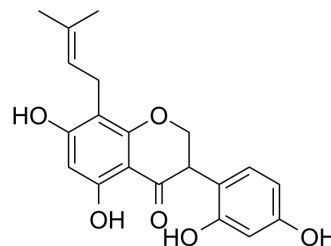


Kievitone

Cat. No.:	HY-123351
CAS No.:	40105-60-0
Molecular Formula:	C ₂₀ H ₂₀ O ₆
Molecular Weight:	356.37
Target:	Fungal
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Kievitone, an isoflavanone, could be isolated from hypocotyls of <i>Phaseolus vulgaris</i> L. infected with <i>Rhizoctonia solani</i> Kühn. Kievitone has antifungal activity and antitumor activity ^{[1][2]} .								
In Vitro	<p>Kievitone (0-40 μM; 4 days) inhibits the proliferation of the oestrogen receptor (ER)-positive breast cancer cell lines MCF-7 and T47D and the ER-negative breast cancer cell line SKBR3 (IC₅₀ values 5-18 μM)^[2].</p> <p>Kievitone (0-40 μM; 48 h) inhibits DNA synthesis of MCF-7 cells stimulated by insulin-like growth factor 1, insulin-like growth factor 2, basic fibroblast growth factor or transforming growth factor α^[2].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Viability Assay^[2]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>MCF-7, T47D and SKBR3 cells</td> </tr> <tr> <td>Concentration:</td> <td>0-40 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>4 days</td> </tr> <tr> <td>Result:</td> <td>Inhibited breast cancer cell proliferation in a dose-dependent manner.</td> </tr> </table>	Cell Line:	MCF-7, T47D and SKBR3 cells	Concentration:	0-40 μM	Incubation Time:	4 days	Result:	Inhibited breast cancer cell proliferation in a dose-dependent manner.
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Concentration:	0-40 μM								
Incubation Time:	4 days								
Result:	Inhibited breast cancer cell proliferation in a dose-dependent manner.								

REFERENCES

[1]. Smith DA, et, al. Kievitone: the principal antifungal component of "substance II" isolated from *Rhizoctonia*-infected bean tissues. 1973 Apr;3(14):179-84.

[2]. Hoffman R. Potent inhibition of breast cancer cell lines by the isoflavonoid kievitone: comparison with genistein. *Biochem Biophys Res Commun*. 1995 Jun 15;211(2):600-6.

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

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