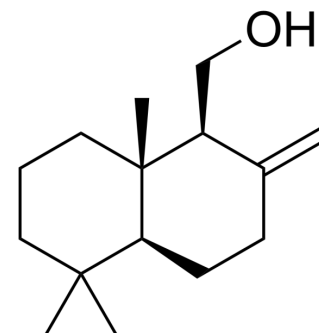


## Albicanol

<b>Cat. No.:</b>	HY-119635
<b>CAS No.:</b>	54632-04-1
<b>Molecular Formula:</b>	C <sub>15</sub> H <sub>26</sub> O
<b>Molecular Weight:</b>	222.37
<b>Target:</b>	Others
<b>Pathway:</b>	Others
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Albicanol is a sesquiterpenoid with potent antioxidant and antagonistic activities against heavy metal toxicity. Albicanol shows cytotoxicity. Albicanol suppress <a href="#">profenofos</a> (HY-B0832) induced genotoxicity in grass carp hepatocytes <sup>[1][2]</sup> .									
<b>In Vitro</b>	<p>Albicanol (compound 6) (0-30 μM; 48 h) shows cytotoxicity with IC<sub>50</sub>s of &gt;30, 24.14, &gt;30 μM for A549, MCF7, HepG2 cells, respectively<sup>[1]</sup>.</p> <p>Albicanol (0.00005 μg/mL; 24 h) significantly inhibits the genotoxicity of L8824 cells resulted from PFF exposure<sup>[2]</sup>. MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Cytotoxicity Assay<sup>[1]</sup></p> <table border="1"> <tr> <td>Cell Line:</td> <td>A549, MCF7, HepG2 cells</td> </tr> <tr> <td>Concentration:</td> <td>0-30 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>48 h</td> </tr> <tr> <td>Result:</td> <td>Showed cytotoxicity with IC<sub>50</sub>s of &gt;30, 24.14, &gt;30 μM for A549, MCF7, HepG2 cells, respectively.</td> </tr> </table>		Cell Line:	A549, MCF7, HepG2 cells	Concentration:	0-30 μM	Incubation Time:	48 h	Result:	Showed cytotoxicity with IC <sub>50</sub> s of >30, 24.14, >30 μM for A549, MCF7, HepG2 cells, respectively.
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### REFERENCES

[1]. Zhao DD, et al. Compounds from *Dryopteris fragrans* (L.) Schott with cytotoxic activity. *Molecules*. 2014 Mar 18;19(3):3345-55.

[2]. Lihui X, et al. Albicanol modulates oxidative stress and the p53 axis to suppress profenofos induced genotoxicity in grass carp hepatocytes. *Fish Shellfish Immunol*. 2022 Mar;122:325-333.

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

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