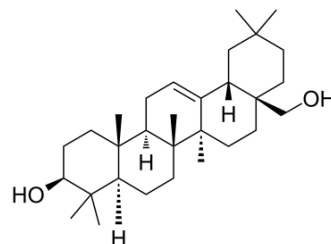


## Erythrodiol

Cat. No.:	HY-N2419
CAS No.:	545-48-2
Molecular Formula:	C <sub>30</sub> H <sub>50</sub> O <sub>2</sub>
Molecular Weight:	442.72
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the COA.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Erythrodiol is an olive oil component. Erythrodiol promotes Cholesterol efflux (ChE) by selectively inhibiting the degradation of <b>ABCA1</b> protein. Erythrodiol is a good candidate to be further explored for therapeutic or preventive application in the context of atherosclerosis <sup>[1]</sup> .								
<b>IC<sub>50</sub> &amp; Target</b>	ABCA1 protein <sup>[1]</sup>								
<b>In Vitro</b>	<p>Erythrodiol (1-15 μM; 24 hours) enhances ABCA1 protein level in a concentration-dependent manner, and reaches significance at 10 and 15 μM<sup>[1]</sup>.</p> <p><b>Western Blot Analysis<sup>[1]</sup></b></p> <table border="1"> <tr> <td>Cell Line:</td> <td>THP-1 macrophage cells</td> </tr> <tr> <td>Concentration:</td> <td>1 μM, 2.5 μM, 5 μM, 10 μM, and 15 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>24 hours</td> </tr> <tr> <td>Result:</td> <td>Increased ABCA1 protein expression.</td> </tr> </table>	Cell Line:	THP-1 macrophage cells	Concentration:	1 μM, 2.5 μM, 5 μM, 10 μM, and 15 μM	Incubation Time:	24 hours	Result:	Increased ABCA1 protein expression.
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Result:	Increased ABCA1 protein expression.								

### REFERENCES

[1]. Wang L, et al. Erythrodiol, an Olive Oil Constituent, Increases the Half-Life of ABCA1 and Enhances Cholesterol Efflux from THP-1-Derived Macrophages. *Front Pharmacol.* 2017 Jun 13;8:375.

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

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