



# SZABO SCANDIC

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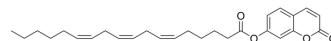
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## 7-Hydroxycoumarinyl-γ-linolenate

<b>Cat. No.:</b>	HY-D1647
<b>CAS No.:</b>	161180-12-7
<b>Molecular Formula:</b>	C <sub>27</sub> H <sub>34</sub> O <sub>4</sub>
<b>Molecular Weight:</b>	422.56
<b>Target:</b>	Phospholipase
<b>Pathway:</b>	Metabolic Enzyme/Protease
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	7-Hydroxycoumarinyl-γ-linolenate is a cytosolic phospholipase A <sub>2</sub> (cPLA <sub>2</sub> ) fluorogenic substrate. 7-Hydroxycoumarinyl-γ-linolenate can be used to monitor the enzymatic activity of cPLA <sub>2</sub> <sup>[1]</sup> .
<b>In Vitro</b>	<p>Guidelines (Following is our recommended protocol. This protocol only provides a guideline, and should be modified according to your specific needs).</p> <p>cPLA<sub>2</sub>α activity assay<sup>[1][2]</sup>:</p> <ol style="list-style-type: none"> <li>1. Sonicate 200 μL of 1,2-O-tetradecyl-sn-glycero-3-phosphocholine (DTPC)/Triton X-100 high-affinity mixed micelle solution containing 960 μM <a href="#">Triton X-100</a> (HY-Y1883A), 60 μM DTPC, 50 μM 7-hydroxycoumarinyl-γ-linolenate, 50 mM N-2-hydroxyethylpiperazine-N-2-ethane sulfonic acid buffer (pH=7.2), 0.3 mM <a href="#">EDTA</a> (HY-Y0682), 1 mM CaCl<sub>2</sub> and 300 mM KCl.</li> <li>2. Monitoring the hydrolysis of 7-hydroxycoumarinyl-γ-linolenate continuously with excitation at 360 nm and emission at 460 nm.</li> <li>3. The formation of 7-hydroxycoumarin was monitored by fluorospectrometer.</li> </ol> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

### REFERENCES

- [1]. Xiao Q, et al. Bufexamac ameliorates LPS-induced acute lung injury in mice by targeting LTA4H. *Sci Rep.* 2016 Apr 29;6:25298.
- [2]. Huang Z, et al. A continuous fluorescence-based assay for the human high-molecular-weight cytosolic phospholipase A<sub>2</sub>. *Anal Biochem.* 1994 Oct;222(1):110-5.

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

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