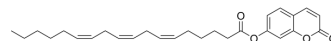


7-Hydroxycoumarinyl- γ -linolenate

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



BIOLOGICAL ACTIVITY

Description	7-Hydroxycoumarinyl- γ -linolenate is a cytosolic phospholipase A ₂ (cPLA ₂) fluorogenic substrate. 7-Hydroxycoumarinyl- γ -linolenate can be used to monitor the enzymatic activity of cPLA ₂ ^[1] .
In Vitro	<p>Guidelines (Following is our recommended protocol. This protocol only provides a guideline, and should be modified according to your specific needs).</p> <p>cPLA₂α activity assay^{[1][2]}:</p> <ol style="list-style-type: none">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 Triton X-100 (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 EDTA (HY-Y0682), 1 mM CaCl₂ and 300 mM KCl.2. Monitoring the hydrolysis of 7-hydroxycoumarinyl-γ-linolenate continuously with excitation at 360 nm and emission at 460 nm.3. The formation of 7-hydroxycoumarin was monitored by fluorospectrometer. <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

- [1]. Xiao Q, et al. Bufenamac 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 A₂. *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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