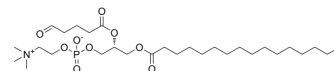


## POVPC

<b>Cat. No.:</b>	HY-130576
<b>CAS No.:</b>	121324-31-0
<b>Molecular Formula:</b>	C <sub>29</sub> H <sub>56</sub> NO <sub>9</sub> P
<b>Molecular Weight:</b>	593.73
<b>Target:</b>	Apoptosis
<b>Pathway:</b>	Apoptosis
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



## BIOLOGICAL ACTIVITY

<b>Description</b>	POVPC is an oxidized phospholipid can be found in in oxidatively modified low density lipoprotein (oxLDL). POVPC inhibits VSMC growth in high serum condition. POVPC induces apoptosis in low serum condition <sup>[1]</sup> .																	
<b>In Vitro</b>	<p>POVPC (0-100 μM; 13 h) inhibits VSMC growth in a dose-dependent manner<sup>[1]</sup>.</p> <p>POVPC (50 μM; 2, 4, 6 h) induces apoptosis in a time-dependent manner<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Viability Assay<sup>[1]</sup></p> <table border="1"> <tr> <td>Cell Line:</td> <td>vascular smooth muscle cells (VSMC)</td> </tr> <tr> <td>Concentration:</td> <td>0-100 μM (under high serum conditions (10% FCS))</td> </tr> <tr> <td>Incubation Time:</td> <td>13 h</td> </tr> <tr> <td>Result:</td> <td>Inhibited VSMC growth in a dose-dependent manner.</td> </tr> </table> <p>Apoptosis Analysis<sup>[1]</sup></p> <table border="1"> <tr> <td>Cell Line:</td> <td>7r5 cells</td> </tr> <tr> <td>Concentration:</td> <td>50 μM (0.1% FCS)</td> </tr> <tr> <td>Incubation Time:</td> <td>2, 4, 6 h</td> </tr> <tr> <td>Result:</td> <td>Induced apoptosis in a time-dependent manner.</td> </tr> </table>		Cell Line:	vascular smooth muscle cells (VSMC)	Concentration:	0-100 μM (under high serum conditions (10% FCS))	Incubation Time:	13 h	Result:	Inhibited VSMC growth in a dose-dependent manner.	Cell Line:	7r5 cells	Concentration:	50 μM (0.1% FCS)	Incubation Time:	2, 4, 6 h	Result:	Induced apoptosis in a time-dependent manner.
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Concentration:	50 μM (0.1% FCS)																	
Incubation Time:	2, 4, 6 h																	
Result:	Induced apoptosis in a time-dependent manner.																	

## REFERENCES

[1]. Fruhwirth GO, et al. The oxidized phospholipids POVPC and PGPC inhibit growth and induce apoptosis in vascular smooth muscle cells. *Biochim Biophys Acta*. 2006 Sep;1761(9):1060-9.

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

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