

## Product Datasheet

# 1-Palmitoleoyl-2-hydroxy-sn-glycero-3-PC (orb2564732)

<b>Catalog Number</b>	orb2564732
<b>Category</b>	Small Molecules
<b>Description</b>	1-Palmitoleoyl-2-hydroxy-sn-glycero-3-PC is a lysophospholipid that increases cAMP levels and enhances glucose-stimulated insulin secretion in human pancreatic $\beta$ cells via GPR55 and GPR119 receptors, as evidenced by inhibition with antagonists CID-16020046 and C8. This makes it a valuable research tool for studying receptor signaling and insulin secretion mechanisms in diabetes research.
<b>Target</b>	Endogenous Metabolite
<b>MW</b>	493.61
<b>CAS Number</b>	76790-27-7
<b>Formula</b>	$C_{24}H_{48}NO_7P$
<b>SMILES</b>	<chem>P(OC[C@H](COC(CCCCCC/C=C\CCCCC)=O)O)(OCC[N+](C)(C)C)(=O)[O-]</chem>
<b>Storage</b>	-20°C
<b>Note</b>	For research use only
<b>Expiration Date</b>	12 months from date of receipt.

**Biorbyt Ltd.**

7 Signet Court, Swann Road  
Cambridge  
CB5 8LA  
United Kingdom

Email: [info@biorbyt.com](mailto:info@biorbyt.com), [support@biorbyt.com](mailto:support@biorbyt.com)  
Phone: [+44 \(0\)1223 859353](tel:+44(0)1223859353) | Fax: [+1 \(415\) 651-8558](tel:+1(415)651-8558)

**Biorbyt LLC**

68 TW Alexander Drive  
Research Triangle Park  
Durham  
NC 27713-2847  
United States

Email: [info@biorbyt.com](mailto:info@biorbyt.com), [support@biorbyt.com](mailto:support@biorbyt.com)  
Phone: [+1 \(415\) 906-5211](tel:+1(415)906-5211) | Fax: [+1 \(415\) 651-8558](tel:+1(415)651-8558)