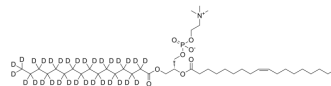


## 1-Palmitoyl-2-oleoyl-sn-glycero-3-PC-d<sub>31</sub>

Cat. No.:	HY-130462S		
CAS No.:	179093-76-6		
Molecular Formula:	C <sub>42</sub> H <sub>51</sub> D <sub>31</sub> NO <sub>8</sub> P		
Molecular Weight:	791.27		
Target:	Isotope-Labeled Compounds		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



### BIOLOGICAL ACTIVITY

<b>Description</b>	1-Palmitoyl-2-oleoyl-sn-glycero-3-PC-d <sub>31</sub> is deuterium labeled 1-Palmitoyl-2-oleoyl-sn-glycero-3-PC. 1-Palmitoyl-2-oleoyl-sn-glycero-3-PC (POPC), a phospholipid, is a major component of biological membranes. 1-Palmitoyl-2-oleoyl-sn-glycero-3-PC is used for
<b>In Vitro</b>	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

- [1]. Moreno MJ, et al. Translocation of phospholipids and dithionite permeability in liquid-ordered and liquid-disordered membranes. *Biophys J.* 2006 Aug 1;91(3):873-81.
- [2]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019;53(2):211-223.

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

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