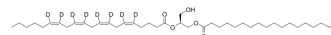


1-Stearoyl-2-Arachidonoyl-d8-sn-Glycerol

Cat. No.:	HY-131897S
CAS No.:	2692624-31-8
Molecular Formula:	C ₄₁ H ₆₄ D ₈ O ₅
Molecular Weight:	653.06
Target:	PKC; TRP Channel; Endogenous Metabolite
Pathway:	Epigenetics; TGF-beta/Smad; Membrane Transporter/Ion Channel; Neuronal Signaling; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	1-Stearoyl-2-Arachidonoyl-d8-sn-Glycerol is the deuterium labeled 1-Stearoyl-2-arachidonoyl-sn-glycerol. 1-Stearoyl-2-arachidonoyl-sn-glycerol is a diacylglycerol (DAG) containing polyunsaturated fatty acids. 1-Stearoyl-2-arachidonoyl-sn-glycerol can activate PKC. 1-Stearoyl-2-arachidonoyl-sn-glycerol also can augment nonselective cation channel (NSCC) activity ^{[1][2]} .
In Vitro	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 ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019;53(2):211-216.
- [2]. Song T, et, al. Inositol 1,4,5-trisphosphate activates TRPC3 channels to cause extracellular Ca²⁺ influx in airway smooth muscle cells. *Am J Physiol Lung Cell Mol Physiol.* 2015 Dec 15;309(12):L1455-66.
- [3]. Madani S, et, al. Implication of acyl chain of diacylglycerols in activation of different isoforms of protein kinase C. *FASEB J.* 2001 Dec;15(14):2595-601.
- [4]. Glasmacher S, et, al. Characterization of pepcan-23 as pro-peptide of RVD-hemopressin (pepcan-12) and stability of hemopressins in mice. *Adv Biol Regul.* 2021 May;80:100808.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA