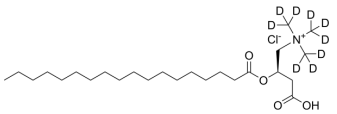
Stearoyl-L-carnitine-d_9 chloride

Cat. No.:	HY-113202S1
CAS No.:	2936622-19-2
Molecular Formula:	$C_{25}H_{41}D_9ClNO_4$
Molecular Weight:	473.18
Target:	Isotope-Labeled Compounds; GlyT
Pathway:	Others; Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Stearoyl-L-carnitine-d9 chloride is the deuterium labeled Stearoyl-L-carnitine chloride. Stearoyl-L-carnitine chloride is an endogenous long-chain acylcarnitine. Stearoyl-L-carnitine chloride is a less potent inhibitor of GlyT2[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]. Carland JE, et, al. Oleoyl-L-carnitine inhibits glycine transport by GlyT2. Br J Pharmacol. 2013 Feb;168(4):891-902.

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