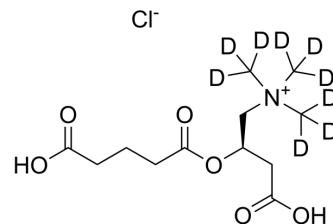


Glutarylcarnitine-d₉ chloride

Cat. No.:	HY-113005S
Molecular Formula:	C ₁₂ H ₁₃ D ₉ ClNO ₆
Molecular Weight:	320.81
Target:	Endogenous Metabolite; Isotope-Labeled Compounds
Pathway:	Metabolic Enzyme/Protease; Others
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



BIOLOGICAL ACTIVITY

Description	Glutarylcarnitine-d ₉ (chloride) is the deuterium labeled Glutarylcarnitine chloride. Glutarylcarnitine is the diagnostic metabolite for malonic aciduria and glutaric aciduria type I monitored in most tandem mass spectrometry newborn screening programmes.
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]. Johnson DW, et al. Stability of malonylcarnitine and Glutarylcarnitine in stored blood spots. *J Inherit Metab Dis.* 2004;27(6):789-90.
- [3]. S Tortorelli, et al. The urinary excretion of glutarylcarnitine is an informative tool in the biochemical diagnosis of glutaric acidemia type I. *Mol Genet Metab.* 2005 Feb;84(2):137-43.

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

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