Diethyl succinate-¹³C₄

MedChemExpress

HY-Y0836S		
1628796-56	-4	
C4 ¹³ C4H14C	D ₄	
178.16		
Isotope-Lal	peled Cor	npounds
Others		
Pure form	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month
	1628796-56 C ₄ ¹³ C ₄ H ₁₄ C 178.16 Isotope-Lal Others Pure form	1628796-56-4 $C_4^{13}C_4H_{14}O_4$ 178.16 Isotope-Labeled Corr Others Pure form -20°C 4°C In solvent -80°C

BIOLOGICAL ACTIVITY

Description	Diethyl succinate- ¹³ C ₄ is the ¹³ C labeled Diethyl succinate[1]. Diethyl succinate (Diethyl Butanedioate) is used at physiological pH and crosses biological membranes, incorporates into cells in tissue culture and is metabolized by the TCA cycle. Diethyl succinate is known to be non-toxic and used in fragrances and flavoring[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 Feb;53(2):211-216.

[2]. Zacharias NM, et al. Real-time molecular imaging of tricarboxylic acid cycle metabolism in vivo by hyperpolarized 1-(13)C diethyl succinate. J Am Chem Soc. 2012 Jan 18;134(2):934-43.

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

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