4-Methyl-2-oxopentanoic acid-^{13}C sodium

Cat. No.: HY-W012722BS1

CAS No.: 93523-70-7

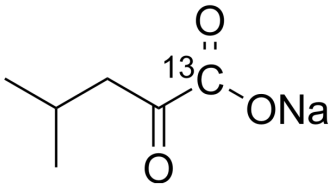
Molecular Formula: $C_5{}^{13}CH_9NaO_3$

Molecular Weight: 153.12

Target: Isotope-Labeled Compounds

Pathway: Others

Storage: -20°C, sealed storage, away from moisture and light
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

Ethanol : 12.5 mg/mL (81.64 mM; Need ultrasonic)

Preparing Stock Solutions	Concentration / Solvent / Mass	1 mg	5 mg	10 mg
	1 mM	6.5308 mL	32.6541 mL	65.3083 mL
	5 mM	1.3062 mL	6.5308 mL	13.0617 mL
	10 mM	0.6531 mL	3.2654 mL	6.5308 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

4-Methyl-2-oxopentanoic acid-^{13}C (sodium) is the ^{13}C labeled 4-Methyl-2-oxopentanoic acid sodium[1].

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.

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

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