



SZABO SCANDIC

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Produktinformation



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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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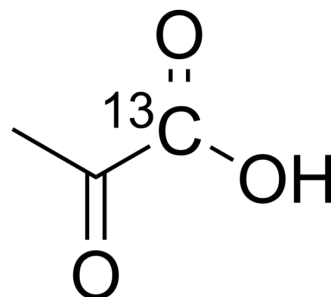
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Pyruvic acid-¹³C

Cat. No.:	HY-Y0781S1	
CAS No.:	99124-30-8	
Molecular Formula:	C ₂ ¹³ CH ₄ O ₃	
Molecular Weight:	89.05	
Target:	Endogenous Metabolite	
Pathway:	Metabolic Enzyme/Protease	
Storage:	Pure form	-20°C 3 years
	In solvent	-80°C 6 months
		-20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (1122.96 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	11.2296 mL	56.1482 mL	112.2965 mL
	5 mM	2.2459 mL	11.2296 mL	22.4593 mL
	10 mM	1.1230 mL	5.6148 mL	11.2296 mL

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

BIOLOGICAL ACTIVITY

Description

Pyruvic acid-¹³C is the ¹³C labeled Pyruvic acid[1]. Pyruvic acid is an intermediate metabolite in the metabolism of carbohydrates, proteins, and fats[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]. Kładna A, et al. Reactivity of pyruvic acid and its derivatives towards reactive oxygen species. *Luminescence*. 2015 Nov;30(7):1153-8.

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

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