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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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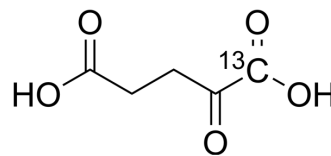
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2-Ketoglutaric acid-¹³C

Cat. No.:	HY-W013636S3		
CAS No.:	108395-15-9		
Molecular Formula:	C ₄ ¹³ CH ₆ O ₅		
Molecular Weight:	147.09		
Target:	Isotope-Labeled Compounds		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



BIOLOGICAL ACTIVITY

Description	2-Ketoglutaric acid- ¹³ C (Alpha-Ketoglutaric acid- ¹³ C) is a ¹³ C labeled 2-Ketoglutaric acid (HY-W013636) ^[1] . 2-Ketoglutaric acid (Alpha-Ketoglutaric acid) is an intermediate in the production of ATP or GTP in the Krebs cycle. 2-Ketoglutaric acid also acts as the major carbon skeleton for nitrogen-assimilatory reactions. 2-Ketoglutaric acid is a reversible inhibitor of tyrosinase (IC ₅₀ =15 mM) ^{[2][3]} .
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):211-246.
- [2]. Huergo LF, et al. The Emergence of 2-Oxoglutarate as a Master Regulator Metabolite. *Microbiol Mol Biol Rev.* 2015 Dec;79(4):419-35.
- [3]. Gou L, et al. The effect of alpha-ketoglutaric acid on tyrosinase activity and conformation: Kinetics and molecular dynamics simulation study. *Int J Biol Macromol.* 2017 Dec;105(Pt 3):1654-1662.

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

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