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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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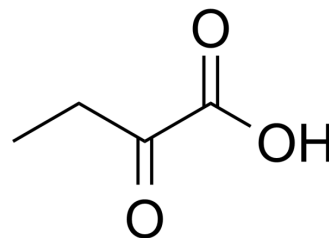
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2-Oxobutanoic acid

Cat. No.:	HY-W007926		
CAS No.:	600-18-0		
Molecular Formula:	C ₄ H ₆ O ₃		
Molecular Weight:	102.09		
Target:	Endogenous Metabolite		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Pure form	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 50 mg/mL (489.76 mM)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	9.7953 mL	48.9764 mL	97.9528 mL
	5 mM	1.9591 mL	9.7953 mL	19.5906 mL
	10 mM	0.9795 mL	4.8976 mL	9.7953 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
 Solubility: ≥ 2.5 mg/mL (24.49 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
 Solubility: ≥ 2.5 mg/mL (24.49 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 2.5 mg/mL (24.49 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

2-Oxobutanoic acid is a product in the enzymatic cleavage of cystathionine.

IC₅₀ & Target

Human Endogenous Metabolite

In Vitro

2-Oxobutanoic acid (alpha-Ketobutyric acid) is a product in the enzymatic cleavage of cystathionine. 2-Oxobutanoic acid is a substance that is involved in the metabolism of many amino acids as well as propanoate metabolism and C-5 branched

dibasic acid metabolism. 2-Oxobutanoic acid is also one of the degradation products of threonine. It can be converted into propionyl-CoA (and subsequently methylmalonyl CoA, which can be converted into succinyl CoA, a citric acid cycle intermediate), and thus enter the citric acid cycle^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. CARROLL WR, et al. alpha-Ketobutyric acid as a product in the enzymatic cleavage of cystathionine. J Biol Chem. 1949 Aug;180(1):375-82.

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

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