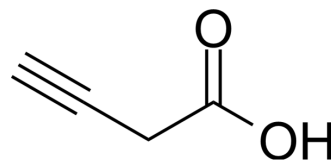


3-Butynoic acid

Cat. No.:	HY-W004784		
CAS No.:	2345-51-9		
Molecular Formula:	C ₄ H ₄ O ₂		
Molecular Weight:	84.07		
Target:	Endogenous Metabolite		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

H₂O : 100 mg/mL (1189.48 mM; Need ultrasonic)

DMSO : ≥ 100 mg/mL (1189.48 mM)

* "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	11.8948 mL	59.4743 mL	118.9485 mL
	5 mM	2.3790 mL	11.8948 mL	23.7897 mL
	10 mM	1.1895 mL	5.9474 mL	11.8948 mL

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

BIOLOGICAL ACTIVITY

Description

3-Butynoic acid is an inhibitor of acyl CoA dehydrogenase^[1]. 3-Butynoic acid is a click chemistry reagent, it contains an Alkyne group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAC) with molecules containing Azide groups.

IC₅₀ & Target

Human Endogenous Metabolite

REFERENCES

[1]. Akedo, M., et al. Direct Demonstration of Lactate–Acrylate Interconversion in Clostridium Propionicum. Nat Biotechnol 1, 791–794 (1983).

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

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