4-Acetamidobutanoic acid

Cat. No.: HY-101411

CAS No.: 3025-96-5

Molecular Formula: $C_6H_{11}NO_3$

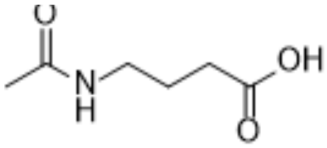
Molecular Weight: 145.16

Target: GABA Receptor; Endogenous Metabolite; Bacterial

Pathway: Membrane Transporter/Ion Channel; Neuronal Signaling; Metabolic Enzyme/Protease; Anti-infection

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	2 years
	-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

H_2O : 50 mg/mL (344.45 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	6.8889 mL	34.4447 mL	68.8895 mL
	5 mM	1.3778 mL	6.8889 mL	13.7779 mL
	10 mM	0.6889 mL	3.4445 mL	6.8889 mL

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

In Vivo

1. Add each solvent one by one: PBS
   Solubility: 100 mg/mL (688.89 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

4-Acetamidobutanoic acid (N-acetyl GABA), the main metabolite of GABA, exhibits antioxidant and antibacterial activities[1].

IC_{50} & Target

Human Endogenous Metabolite

In Vitro

4-Acetamidobutanoic acid can inhibit the growth of pathogens[1].

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

CUSTOMER VALIDATION

- FASEB J. 2022 May;36(5):e22305.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Si-Cheng Xing, et al. Metabolic activity of Bacillus coagulans R11 and the health benefits of and potential pathogen inhibition by this species in the intestines of laying hens under lead exposure. Sci Total Environ. 2020 Mar 20;709:134507.

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