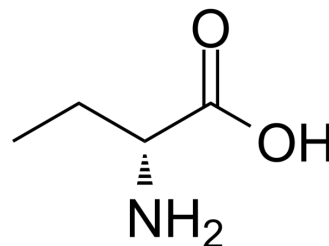


## D(-)-2-Aminobutyric acid

<b>Cat. No.:</b>	HY-Y0127		
<b>CAS No.:</b>	2623-91-8		
<b>Molecular Formula:</b>	C <sub>4</sub> H <sub>9</sub> NO <sub>2</sub>		
<b>Molecular Weight:</b>	103.12		
<b>Target:</b>	Endogenous Metabolite		
<b>Pathway:</b>	Metabolic Enzyme/Protease		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

H<sub>2</sub>O : 100 mg/mL (969.74 mM; Need ultrasonic)  
 DMSO : < 1 mg/mL (ultrasonic;warming;heat to 60°C) (insoluble or slightly soluble)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	9.6974 mL	48.4872 mL	96.9744 mL
	5 mM	1.9395 mL	9.6974 mL	19.3949 mL
	10 mM	0.9697 mL	4.8487 mL	9.6974 mL

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

#### In Vivo

1. Add each solvent one by one: PBS  
 Solubility: 50 mg/mL (484.87 mM); Clear solution; Need ultrasonic

### BIOLOGICAL ACTIVITY

#### Description

D(-)-2-Aminobutyric acid is a substrate of D-amino acid oxidase.

#### IC<sub>50</sub> & Target

Human Endogenous Metabolite

#### In Vitro

D(-)-2-Aminobutyric acid (D-α-aminobutyric acid) is a substrate of D-amino acid oxidase<sup>[1]</sup>.  
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

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[1]. Yagi K, et al. Spectroscopic demonstration of an initial stage of the complex of D-amino acid oxidase and its substrate D-alpha-aminobutyric acid. Biochem Biophys Res Commun. 1980 Nov 28;97(2):370-4.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA