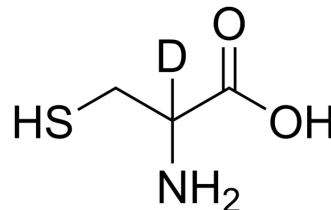


## DL-Cysteine-d<sub>1</sub>

Cat. No.:	HY-W012850S1
Molecular Formula:	C <sub>3</sub> H <sub>6</sub> DNO <sub>2</sub> S
Molecular Weight:	122.16
Target:	Isotope-Labeled Compounds; Amino Acid Derivatives
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	DL-Cysteine-d <sub>1</sub> is the deuterated labeled 2-Amino-3-mercaptopropanoic acid (HY-W012850). 2-Amino-3-mercaptopropanoic acid is a cysteine derivative <sup>[1][2]</sup> .
<b>In Vitro</b>	Amino acids and amino acid derivatives have been commercially used as ergogenic supplements. They influence the secretion of anabolic hormones, supply of fuel during exercise, mental performance during stress related tasks and prevent exercise induced muscle damage. They are recognized to be beneficial as ergogenic dietary substances <sup>[1]</sup> . 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 <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Luckose F, et al. Effects of amino acid derivatives on physical, mental, and physiological activities. Crit Rev Food Sci Nutr. 2015;55(13):1793-807.

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

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