# (R)-2-Amino-4-mercaptobutanoic acid

**Cat. No.:** HY-77801

**CAS No.:** 6027-14-1

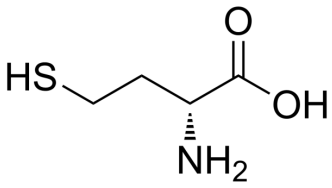
**Molecular Formula:** $C_4H_9NO_2S$

**Molecular Weight:** 135.18

**Target:** Amino Acid Derivatives

**Pathway:** Others

**Storage:** 4°C, protect from light, stored under nitrogen
* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)




## SOLVENT & SOLUBILITY

**In Vitro**

$H_2O$ : 62.5 mg/mL (462.35 mM; Need ultrasonic)
DMSO : 2 mg/mL (14.80 mM; ultrasonic and warming and heat to 60°C)

**Preparing Stock Solutions**

| Solvent / Mass / Concentration | 1 mg | 5 mg | 10 mg |
|---|---|---|---|
| 1 mM | 7.3975 mL | 36.9877 mL | 73.9754 mL |
| 5 mM | 1.4795 mL | 7.3975 mL | 14.7951 mL |
| 10 mM | 0.7398 mL | 3.6988 mL | 7.3975 mL |

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

## BIOLOGICAL ACTIVITY

**Description**

(R)-2-Amino-4-mercaptobutanoic acid is a cysteine derivative[1].

**In Vitro**

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[1].
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.**

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA