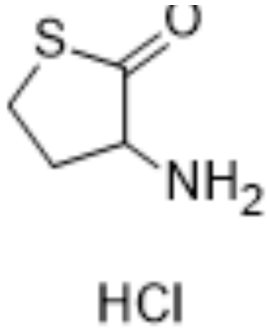
DL-Homocysteine thiolactone hydrochloride

Cat. No.:	HY-101404
CAS No.:	6038-19-3
Molecular Formula:	C_4H_8ClNOS
Molecular Weight:	153.63
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (325.46 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	6.5091 mL	32.5457 mL	65.0915 mL
	5 mM	1.3018 mL	6.5091 mL	13.0183 mL
	10 mM	0.6509 mL	3.2546 mL	6.5091 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (16.27 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (16.27 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (16.27 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

DL-Homocysteine thiolactone hydrochloride is a cyclic amino acid derivative that exhibits root-growth inhibitory activity.

In Vitro

DL-Homocysteine thiolactone hydrochloride shows growth inhibition toward the roots of Brassica campestris and Echinochloa utilis even at the low concentration of 50 μM[1].

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

REFERENCES

[1]. Yoshihiko INAMORI, et al. Root-growth Inhibition by DL-Homocysteine Thiolactone and Its Related Compounds. Biosci. Biotech. Biochem., 59 (3), 523-525, 1995.

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