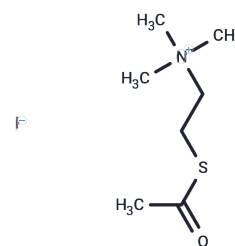


## Acetylthiocholine iodide

### Chemical Properties

CAS No. :	1866-15-5
Formula:	C7H16INOS
Molecular Weight:	289.18
Storage:	Keep away from moisture Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



### Biological Description

Description	Acetylthiocholine iodide is a biochemical substrate specifically utilized for measuring cholinesterase enzyme activity. Acetylthiocholine iodide is applied in enzyme kinetics, neuroscience, and organ physiology studies to quantify cholinergic transmission efficiency and to assess neurotoxicity or pharmacological inhibition of cholinesterases.
Targets(IC50)	Endogenous Metabolite

### Solubility Information

Solubility	H2O: 80 mg/mL (276.64 mM), Sonication is recommended. DMSO: ≥ 80 mg/mL, Sonication is recommended. ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.4581 mL	17.2903 mL	34.5805 mL
5 mM	0.6916 mL	3.4581 mL	6.9161 mL
10 mM	0.3458 mL	1.729 mL	3.4581 mL
50 mM	0.0692 mL	0.3458 mL	0.6916 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Bucur MP, et al. Critical evaluation of acetylthiocholine iodide and acetylthiocholine chloride as substrates for amperometric biosensors based on acetylcholinesterase. *Sensors (Basel)*. 2013 Jan 25;13(2):1603-13.

Jeong Y, et al. Histochemical Identification of Motor Fascicles Using Cholinesterase Staining in Rats Using a Mixed Nerve Model. *Transplant Proc*. 2024 Apr;56(3):712-714.

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