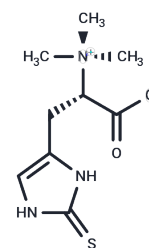


Ergothioneine

Chemical Properties

CAS No. :	497-30-3
Formula:	C ₉ H ₁₅ N ₃ O ₂ S
Molecular Weight:	229.30
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Ergothioneine (L-(+)-Ergothioneine) is synthesized by certain bacteria and fungi. It is generally considered an antioxidant.
Targets(IC50)	Antioxidant, NF-κB, Akt, Nrf2, Endogenous Metabolite, p38 MAPK

Solubility Information

Solubility	H ₂ O: 127.50 mg/mL (556.04 mM), 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	4.3611 mL	21.8055 mL	43.611 mL
5 mM	0.8722 mL	4.3611 mL	8.7222 mL
10 mM	0.4361 mL	2.1805 mL	4.3611 mL
50 mM	0.0872 mL	0.4361 mL	0.8722 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

Oumari M, et al. Regeneration of ergothioneine after reaction with singlet oxygen. Free Radic Biol Med. 2019 Apr; 134:498-504.

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