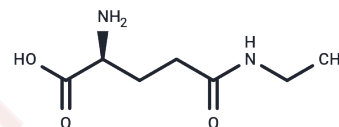


L-Theanine

Chemical Properties

CAS No. :	3081-61-6
Formula:	C7H14N2O3
Molecular Weight:	174.2
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	L-Theanine is a relaxing and nondietary amino acid found pretty much exclusively in teas from Camellia sinensis and is known to promote relaxation without sedation.
Targets(IC50)	Apoptosis, Reactive Oxygen Species, Endogenous Metabolite, ROS

Solubility Information

Solubility	H2O: 160 mg/mL (918.48 mM), Sonication is recommended. DMSO: Insoluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.7405 mL	28.7026 mL	57.4053 mL
5 mM	1.1481 mL	5.7405 mL	11.4811 mL
10 mM	0.5741 mL	2.8703 mL	5.7405 mL
50 mM	0.1148 mL	0.5741 mL	1.1481 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

- Pérez-Vargas JE, et al. Hum Exp Toxicol. 2015 Apr 7. pii: 0960327115578864.
- Peng W Q, Xiao G, Li B Y, et al. L-Theanine Activates the Browning of White Adipose Tissue through the AMPK/ α -Ketoglutarate/Prdm16 Axis and Ameliorates Diet-induced Obesity in Mice. Diabetes. 2021
- Peng W Q, Xiao G, Li B Y, et al. L-Theanine Activates the Browning of White Adipose Tissue through the AMPK/ α -Ketoglutarate/Prdm16 Axis and Ameliorates Diet-induced Obesity in Mice[J]. Diabetes. 2021

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