

γ -Glu-Cys (ammonium salt)

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

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	γ -Glu-Cys is an intermediate in glutathione (GSH) synthesis.1It is formed by ATP-dependent condensation of cysteine and glutamate by γ -glutamylcysteine synthetase. γ -Glu-Cys is also an essential component of phytochelatins, the heavy metal detoxifying enzymes in plants.2
Targets(IC50)	Others

Solubility Information

Solubility	PBS (pH 7.2): 10 mg/mL, Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Reference

Anderson, M.E., and Meister, A. Transport and direct utilization of γ -glutamylcyst(e)ine for glutathione synthesis Proc. Natl. Acad. Sci. USA80(3)707-711(1983)

Grill, E., Löffler, S., Winnacker, E.-L., et al. Phytochelatins, the heavy-metal-binding peptides of plants, are synthesized from glutathione by a specific γ -glutamylcysteine dipeptidyl transpeptidase (phytochelatin synthase) Proc. Natl. Acad. Sci. USA86(18)6838-6842(1989)

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