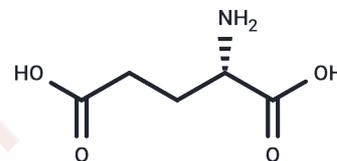


L-Glutamic acid

Chemical Properties

CAS No. :	56-86-0
Formula:	C ₅ H ₉ NO ₄
Molecular Weight:	147.13
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	L-Glutamic acid (Glutaminol) acts as an excitatory transmitter, shows a direct activating effect on the release of DA from dopaminergic terminals.
Targets(IC50)	Apoptosis,Ferroptosis,Endogenous Metabolite,iGluR

Solubility Information

Solubility	H ₂ O: 8.33 mg/mL (56.62 mM),Sonication is recommended. DMSO: < 1 mg/mL (insoluble or slightly soluble) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.7967 mL	33.9836 mL	67.9671 mL
5 mM	1.3593 mL	6.7967 mL	13.5934 mL
10 mM	0.6797 mL	3.3984 mL	6.7967 mL
50 mM	0.1359 mL	0.6797 mL	1.3593 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.

Reference

Giorguieff MF, et al. Presynaptic effect of L-glutamic acid on the release of dopamine in rat striatal slices. *Neurosci Lett.* 1977 Oct;6(1):73-7.

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