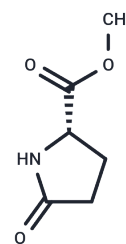


Methyl L-pyroglutamate

Chemical Properties

CAS No. :	4931-66-2
Formula:	C ₆ H ₉ NO ₃
Molecular Weight:	143.14
Storage:	Pure form: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Methyl L-pyroglutamate (L-Pyroglutamic acid methyl ester) shows anti-inflammatory activity. Methyl L-pyroglutamate is isolated from Portulaca oleracea L..
Targets(IC50)	Others,Antifungal

Solubility Information

Solubility	DMSO: 55 mg/mL (384.24 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (13.97 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.9862 mL	34.9308 mL	69.8617 mL
5 mM	1.3972 mL	6.9862 mL	13.9723 mL
10 mM	0.6986 mL	3.4931 mL	6.9862 mL
50 mM	0.1397 mL	0.6986 mL	1.3972 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

Kim KH, et al. 1-Carbomethoxy- β -Carboline, Derived from *Portulaca oleracea* L., Ameliorates LPS-Mediated Inflammatory Response Associated with MAPK Signaling and Nuclear Translocation of NF- κ B. *Molecules*. 2019 Nov 7;24(22). pii: E4042.

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