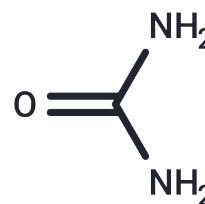


Urea

Chemical Properties

CAS No. :	57-13-6
Formula:	CH ₄ N ₂ O
Molecular Weight:	60.06
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	Urea (Carbonyldiamide) is formed in the liver from ammonia produced by the deamination of amino acids. It is the principal end metabolite of protein catabolism and accounts for about one-half of the total urinary solids.
Targets(IC50)	Apoptosis,ERK,Arginase,Endogenous Metabolite,Carbonic Anhydrase,DHFR,Wnt/beta-catenin

Solubility Information

Solubility	DMSO: 250 mg/mL (4162.5 mM),Sonication is recommended. H ₂ O: 199.8 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 (33.3 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	16.650 mL	83.2501 mL	166.5002 mL
5 mM	3.330 mL	16.650 mL	33.300 mL
10 mM	1.665 mL	8.325 mL	16.650 mL
50 mM	0.333 mL	1.665 mL	3.330 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

Shen S, et al. Environ Sci Pollut Res Int. 2014 Nov;21(21):12563-8.

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