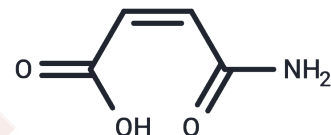


(Z)-4-Amino-4-oxobut-2-enoic acid

Chemical Properties

CAS No. :	557-24-4
Formula:	C ₄ H ₅ NO ₃
Molecular Weight:	115.09
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	(Z)-4-Amino-4-oxobut-2-enoic acid (Maleamic acid) is a valuable compound for research applications.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	Ethanol: Soluble, Sonication and heating to 60°C are recommended. H ₂ O: 100 mg/mL (868.89 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 (17.38 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	8.6889 mL	43.4443 mL	86.8885 mL
5 mM	1.7378 mL	8.6889 mL	17.3777 mL
10 mM	0.8689 mL	4.3444 mL	8.6889 mL
50 mM	0.1738 mL	0.8689 mL	1.7378 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

Zhang, A., Yao, L., & An, M. (2017). Reversing the undesirable pH-profile of doxorubicin via activation of a di-substituted maleamic acid prodrug at tumor acidity. *Chemical Communications*, 53(95), 12826-12829. doi: 10.1039/c7cc06843c

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