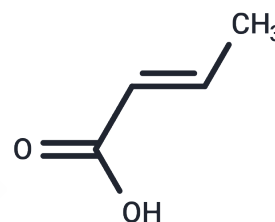


(E)-2-Butenoic acid

Chemical Properties

CAS No. :	107-93-7
Formula:	C ₄ H ₆ O ₂
Molecular Weight:	86.09
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	(E)-2-Butenoic acid (Crotonic acid) is fatty acid formed by the action of fatty acid synthases from acetyl-CoA and malonyl-CoA precursors. Crotonic acid is involved in the fatty acid biosynthesis. Crotonic acid is also found in water extracts from carrot seeds (<i>Daucus carota</i> L.).
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	DMSO: 255 mg/mL (2962.02 mM),Sonication is recommended. H ₂ O: 66 mg/mL (766.64 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 10 mg/mL (116.16 mM),Solution. <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	11.6158 mL	58.0788 mL	116.1575 mL
5 mM	2.3232 mL	11.6158 mL	23.2315 mL
10 mM	1.1616 mL	5.8079 mL	11.6158 mL
50 mM	0.2323 mL	1.1616 mL	2.3232 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

Sethi JK, et al. Thematic review series: adipocyte biology. Adipose tissue function and plasticity orchestrate nutritional adaptation. J Lipid Res. 2007 Jun;48(6):1253-62.

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