

Maleuric acid

Chemical Properties

CAS No. : 105-61-3

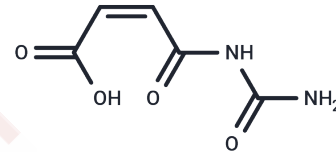
Formula: C₅H₆N₂O₄

Molecular Weight: 158.11

Storage: Keep away from direct sunlight, Keep away from moisture

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	Maleuric acid (N-Carbamoylmaleamic acid) is anti-mitotic and can be used in biological research in conjunction with radioautography. Maleuric acid is used to improve the growth and fertility of plants and animals as well as to treat whey acid deficiency.
Targets(IC50)	Others, DNA/RNA Synthesis

Solubility Information

Solubility	DMSO: 50 mg/mL (316.24 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.3247 mL	31.6236 mL	63.2471 mL
5 mM	1.2649 mL	6.3247 mL	12.6494 mL
10 mM	0.6325 mL	3.1624 mL	6.3247 mL
50 mM	0.1265 mL	0.6325 mL	1.2649 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

- Santora LC, et al. Characterization of maleuric acid derivatives on transgenic human monoclonal antibody due to post-secretional modifications in goat milk. Biomed Chromatogr. 2006;20(9):843-856.
- Santora LC, et al. Characterization of maleuric acid derivatives on transgenic human monoclonal antibody due to post-secretional modifications in goat milk. Biomed Chromatogr. 2006 Sep;20(9):843-56.
- OKADA TA, et al. Cytotoxic effects of maleuric acid and the structurally related compounds on Ehrlich ascites tumor cells. Cancer Res. 1963 Feb;23:217-22.
- TRUHAUT R, DEYSSON G. CHARACTERISTICS OF THE ANTIMITOTIC ACTIVITY OF MALEURIC ACID STUDIED ON THE ALLIUM TEST. C R Seances Soc Biol Fil. 1963;157:1907-9.

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