Data Sheet (Cat.No.T205940)

TargetMol

Barbituric acid

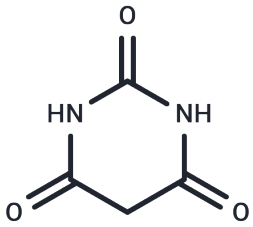
Chemical Properties

CAS No. : 67-52-7

Formula: C4H4N2O3

Molecular Weight: 128.09

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	Barbituric acid is a pyrimidine derivative and the basic skeleton of barbiturate drugs, commonly used in the preparation of barbiturate drugs and other heterocyclic compounds. It exhibits weak inhibitory activity against tyrosinase in mushrooms.
Targets(IC50)	Tyrosinase

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	7.807 mL	39.0351 mL	78.0701 mL
5 mM	1.5614 mL	7.807 mL	15.614 mL
10 mM	0.7807 mL	3.9035 mL	7.807 mL
50 mM	0.1561 mL	0.7807 mL	1.5614 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

Hsu, FY., et al. Pyrimidinetrione benzodioxol ameliorates MAFLD-induced liver tumorigenesis and mood disorders in mice. npj Gut Liver 2, 12 (2025).

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