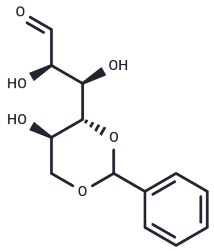
Data Sheet (Cat.No.TN7217)

TargetMol

4,6-Benzilidine-D-Glucose

Chemical Properties



CAS No. : 30688-66-5

Formula: C13H16O6

Molecular Weight: 268.26

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	4,6-Benzilidine-D-Glucose is a clinical antitumor compound showing antitumor activity in rats with chemically induced hepatocellular carcinoma.
Targets(IC50)	Others

Solubility Information

Solubility	Ethanol: 22.5 mg/mL (83.87 mM),Sonication is recommended. DMF: 22.5 mg/mL (83.87 mM),Sonication is recommended. DMSO: 60 mg/mL (223.66 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.7277 mL	18.6386 mL	37.2773 mL
5 mM	0.7455 mL	3.7277 mL	7.4555 mL
10 mM	0.3728 mL	1.8639 mL	3.7277 mL
50 mM	0.0746 mL	0.3728 mL	0.7455 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

Pettersen EO, et al. Effect on protein synthesis and cell survival of the benzaldehyde derivatives sodium benzylidene ascorbate (SBA) and the deuterated compound zilascorb(2H). Anticancer Res. 1991;11(3):1077-1081.
Wimmer S, et al. Synthesis, biological evaluation, and molecular docking studies of aldotetronic acid-based LpxC inhibitors. Bioorg Chem. 2023;131:106331.

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