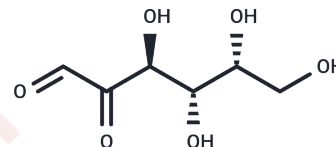


2-Keto-D-galactose

Chemical Properties

CAS No. :	54142-77-7
Formula:	C ₆ H ₁₀ O ₆
Molecular Weight:	178.14
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	2-Keto-D-galactose inhibits DNA synthesis and inhibits the proliferation of in vitro grown Ehrlich ascites tumor cells. This compound is unstable in powder form and other related salt forms are recommended.
Targets(IC50)	DNA/RNA Synthesis
In vitro	A concentration of 1-2 mM 2-Keto-D-galactose completely inhibits the proliferation of in vitro grown Ehrlich ascites tumor cells without significantly impacting viability (dye exclusion test). At 2 mM, 2-Keto-D-galactose also comparably inhibits DNA synthesis.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.6136 mL	28.0678 mL	56.1356 mL
5 mM	1.1227 mL	5.6136 mL	11.2271 mL
10 mM	0.5614 mL	2.8068 mL	5.6136 mL
50 mM	0.1123 mL	0.5614 mL	1.1227 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

Reiffen KA, et al. A comparative study on proliferation, macromolecular synthesis and energy metabolism of in vitro-grown Ehrlich ascites tumor cells in the presence of glucosone, galactosone and methylglyoxal. J Cancer Res Clin Oncol. 1984;107(3):206-10.

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