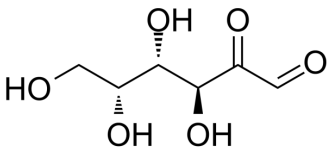
2-Keto-D-galactose

Cat. No.:	HY-136110
CAS No.:	54142-77-7
Molecular Formula:	$C_6H_{10}O_6$
Molecular Weight:	178.14
Target:	DNA/RNA Synthesis
Pathway:	Cell Cycle/DNA Damage
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	2-Keto-D-galactose (D-Galactosone) inhibits DNA synthesis, and inhibits proliferation of in vitro grown Ehrlich ascites tumor cells[1].
IC_{50} & Target	DNA synthesis[1]
In Vitro	2 mM 2-Keto-D-galactose (Galactosone) causes a comparable inhibition of DNA synthesis. Proliferation of in vitro grown Ehrlich ascites tumor cells is completely inhibited by 1-2 mM 2-Keto-D-galactose without severely affecting viability (dye exclusion test); no phase-specific arrest of cell growth is observed[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. 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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