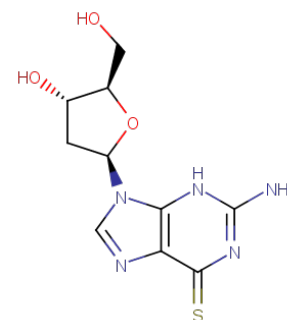


Catalog Number: CM03710

产品信息

Catalog Number:
CM03710CAS号:
789-61-7分子式:
C₁₀H₁₃N₅O₃S主要靶点:
DNA/RNA Synthesis|Others主要通路:
其他|细胞周期|DNA损伤和修复分子量:
283.31溶解度:
Ethanol:<1 mg/mL,H₂O:<1
mg/mL,DMSO:52 mg/mL (183.5
mM)

体外活性

6-Thio-dG induces telomere dysfunction and results in progressive telomere shortening in telomerase-positive human cancer cells and hTERT-expressing human fibroblasts. In tested cancer cells, 6-thio-dG inhibits cell viability with IC₅₀ values between 0.7 and 2.9 μ M. [1]

体内活性

In mice bearing A549 lung cancer xenografts, 6-Thio-dG (2 mg/kg, i.p.) decreases the tumorigenicity of A549 Cells by inducing telomere dysfunction. [1]

细胞实验

Cells are plated in growth media in 96-well plates. Cells are incubated for 1 week and treated with varying concentrations of 6-thio-dG and 6-thioguanine or DMSO every 3 days. The 96-well plates are analyzed according to the manufacturer's directions for the CellTiterGlo luminescent cell viability assay to obtain IC₅₀ values. The IC₅₀ is defined as the concentration of drug at which 50% of the cells are inhibited by the drug. Sigmoidal dose-response curves are used to calculate IC₅₀ values. All samples are analyzed in triplicate, and SDs are from two independent experiments.(Only for Reference)

描述

6-Thio-2'-Deoxyguanosine (β -TGdR) is a nucleoside analog and telomerase substrate.

储存

Powder: -20°C for 3 years | In solvent: -80°C for 1 year