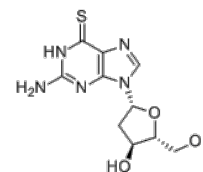


Product Name : 6-thio-dG
Cat. No. : PC-70273
CAS No. : 789-61-7
Molecular Formula : C₁₀H₁₃N₅O₃S
Molecular Weight : 283.3
Target : Telomerase
Solubility : 10 mM in DMSO



Biological Activity

6-thio-dG (NSC 71261) is a nucleoside analogue that induces telomere dysfunction in **telomerase**-positive human cancer cells, but not in telomerase-negative cells.

6-thio-dG (NSC 71261) causes rapid cell death for the vast majority of the cancer cell lines (IC₅₀=0.7-2.9 μM), without effect on normal human fibroblasts and human colonic epithelial cells.

6-thio-dG (NSC 71261) decreases tumor growth rate superior to 6-thioguanine in A549 lung cancer models, increases telomere dysfunction in tumor cells in vivo.

References

Mender I, et al. *Cancer Discov.* 2015, 5(1), 82-95.

Mender I, et al. *Oncoscience.* 2015 Aug 22;2(8):693-5. eCollection 2015.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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