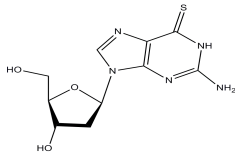


**PRODUCT: 2'-Deoxy-6-thioguanosine****ALTERNATE NAME:** 2'-Deoxy-6-thio-D-guanosine; 6-Thio-2'-deoxyguanosine; 6-thio-DG**CATALOG #:** 2828-5, 25**AMOUNT:** 5 mg, 25 mg**STRUCTURE:****MOLECULAR FORMULA:** C<sub>10</sub>H<sub>13</sub>N<sub>5</sub>O<sub>3</sub>S**MOLECULAR WEIGHT:** 283.31**CAS NUMBER:** 789-61-7**APPEARANCE:** White to off-white solid**SOLUBILITY:** DMSO:H<sub>2</sub>O (1:2) (50 mM)**PURITY:** ≥97% by HPLC**STORAGE:** Store at -20 °C. Protect from air and moisture**DESCRIPTION:** 6-Thio-dG induces telomere dysfunction in telomerase-positive human cancer cells and hTERT-expressing human fibroblasts, but not in telomerase-negative cells. Treatment with 6-thio-dG results in rapid cell death for a wide variety of cancer cells, whereas normal human fibroblasts and human colonic epithelial cells are mostly unaffected.**REFERENCES:** Mender, I., *et al.* (2015). *Cancer Discov.* **5**, 1-14.**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.**RELATED PRODUCTS:**

TERT Antibody (Cat. No. 6793-100)

TP2 Antibody (Cat. No. 3941-100)

TP2 Blocking Peptide (Cat. No. 3941BP-50)

**USAGE:** **FOR RESEARCH CH USE ONLY! Not to be used in humans**