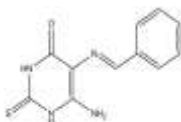


**PRODUCT: L-189****RELATED PRODUCTS:**

L-67 (9633)

SCR-7 (9409)

T4 DNA Ligase (9101)

**ALTERNATE NAME:** (E)-6-amino-5-(benzylideneamino)-2-thioxo-2,3-dihydropyrimidin-4(1H)-one**CATALOG #:** 9674-5, 25**AMOUNT:** 5 mg, 25 mg**STRUCTURE:****MOLECULAR FORMULA:** C<sub>11</sub>H<sub>10</sub>N<sub>4</sub>OS**MOLECULAR WEIGHT:** 246.29**CAS NUMBER:** 64232-83-3**APPEARANCE:** White solid**SOLUBILITY:** DMSO (>20 mg/ml)**PURITY:** ≥98% by HPLC**STORAGE:** Store at -20°C. Protect from air and light**DESCRIPTION:** L-189 is a DNA ligase I, III and IV inhibitor (IC<sub>50</sub> values are 5, 9 and 5 μM respectively) that blocks DNA binding (K<sub>i</sub>= 5 μM for DNA ligase I). L-189 inhibits base excision repair (BER) and non-homologous end joining (NHEJ). L-189 specifically sensitizes cancer cells to DNA damage and increases the cytotoxicity of DNA-damaging agents.**REFERENCES:** Chen, X., *et al.* (2008). *Cancer Res.* **68**, 3169-3177.**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.**USAGE:** **FOR RESEARCH CH USE ONLY! Not to be used in humans**