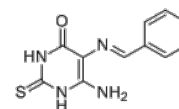


Product Name : L189
Cat. No. : PC-38571
CAS No. : 64232-83-3
Molecular Formula : C₁₁H₁₀N₄OS
Molecular Weight : 246.3
Target : DNA/RNA Synthesis
Solubility : 10 mM in DMSO



Biological Activity

L189 is a small molecule **DNA ligase I, III and IV** inhibitor with IC₅₀ of 5, 9 and 5 uM, blocks DNA ligase I DNA binding activity with K_i of 5 uM.

L189 preferentially inhibits step 2 of the ligation reaction, and inhibits base excision repair (BER) and non-homologous end joining (NHEJ).

L189 significantly sensitizes cancer cells to DNA damage and increases the cytotoxicity of DNA-damaging agents.

References

Chen X, et al. Cancer Res. 2008 May 1;68(9):3169-77.

Timothy R L Howes, et al. DNA Repair (Amst). 2017 Dec;60:29-39.

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

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