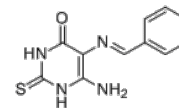


**Product Name** : L189  
**Cat. No.** : PC-38571  
**CAS No.** : 64232-83-3  
**Molecular Formula** : C<sub>11</sub>H<sub>10</sub>N<sub>4</sub>OS  
**Molecular Weight** : 246.3  
**Target** : DNA/RNA Synthesis  
**Solubility** : 10 mM in DMSO



## Biological Activity

L189 is a small molecule DNA ligase I, III and IV inhibitor with IC<sub>50</sub> of 5, 9 and 5 μM, blocks DNA ligase I DNA binding activity with K<sub>i</sub> of 5 μM.

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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