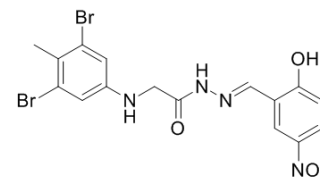


L67

Cat. No.:	HY-15586		
CAS No.:	325970-71-6		
Molecular Formula:	C ₁₆ H ₁₄ Br ₂ N ₄ O ₄		
Molecular Weight:	486.11		
Target:	DNA/RNA Synthesis		
Pathway:	Cell Cycle/DNA Damage		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 33 mg/mL (67.89 mM)
 H₂O : < 0.1 mg/mL (insoluble)
 * "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.0571 mL	10.2857 mL	20.5715 mL
	5 mM	0.4114 mL	2.0571 mL	4.1143 mL
	10 mM	0.2057 mL	1.0286 mL	2.0571 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

L67 is a novel, competitive human DNA ligase inhibitor, inhibits DNA ligases I and III with IC₅₀ of 10 μM and 10 μM. IC₅₀ value: 10 μM [1] Target: DNA ligases in vitro: L67 significantly increases the cytotoxicity of DNA damaging agents. [1] L67 also inhibits cell proliferation. [2]

REFERENCES

- [1]. Zhong S, et al. Identification and validation of human DNA ligase inhibitors using computer-aided drug design. J Med Chem. 2008 Aug 14;51(15):4553-4562.
 [2]. Chen X, et al. Rational design of human DNA ligase inhibitors that target cellular DNA replication and repair. Cancer Res. 2008 May 1;68(9):3169-3177.

Caution: Product has not been fully validated for medical applications. For research use only.

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