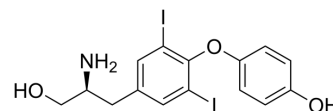


T2AA

Cat. No.:	HY-110111		
CAS No.:	1380782-27-3		
Molecular Formula:	C ₁₅ H ₁₅ I ₂ NO ₃		
Molecular Weight:	511.09		
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 : 100 mg/mL (195.66 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	1.9566 mL	9.7830 mL	19.5660 mL
5 mM	0.3913 mL	1.9566 mL	3.9132 mL
10 mM	0.1957 mL	0.9783 mL	1.9566 mL

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

BIOLOGICAL ACTIVITY

Description

T2AA is a monoubiquitinated proliferating cell nuclear antigen (PCNA) inhibitor that prevents DNA repair, increases double-strand break (DSB) formation and promotes necroptosis and cell cycle arrest in G1 phase^[1].

In Vitro

T2AA (15 μM, 72 h) inhibits interstrand DNA crosslink (ICL) repair, it can prevent the disassembly of DNA double-strand break (DSB) formed as an ICL repair intermediate, and has the ability to inhibit DSB repair^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Akira Inoue, et al. A small molecule inhibitor of monoubiquitinated Proliferating Cell Nuclear Antigen (PCNA) inhibits repair of interstrand DNA cross-link, enhances DNA double strand break, and sensitizes cancer cells to cisplatin. J Biol Chem. 2014 Mar 7;289(10):7109-7120.

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

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