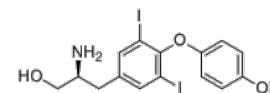


Product Name : T2AA
Cat. No. : PC-72920
CAS No. : 1380782-27-3
Molecular Formula : C₁₅H₁₅I₂NO₃
Molecular Weight : 511.09
Target : DNA Repair Protein
Solubility : 10 mM in DMSO



Biological Activity

T2AA (T2 amino alcohol) is a small molecule **proliferating cell nuclear antigen (PCNA)** inhibitor, inhibits interaction of PCNA/PIP-box peptide with IC₅₀ of 1 μM.

T2AA also inhibits interaction of PCNA and full-length p21 protein.

T2AA abolished interaction of PCNA and DNA polymerase δ in cellular chromatin, arrested cancer cells in S-phase, inhibited growth of cancer cells with induction of early apoptosis.

T2AA significantly inhibited translesion DNA synthesis on a cisplatin-cross-linked template in cells, induced significant increase in phospho(Ser139) histone H2AX induction and cell growth inhibition combined with cisplatin;

References

Actis M, et al. *Bioorg Med Chem.* 2013 Apr 1;21(7):1972-7.

Inoue A, et al. *J Biol Chem.* 2014 Mar 7;289(10):7109-7120.

Wilson RH, et al. *DNA Repair (Amst).* 2017 Feb;50:22-35.

Ohayon D, et al. *J Exp Med.* 2019 Nov 4;216(11):2669-2687.

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

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