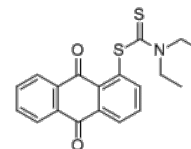


Product Name : Teloxantron
Cat. No. : PC-49795
CAS No. : 2016813-83-3
Molecular Formula : C₁₉H₁₇NO₂S₂
Molecular Weight : 355.47
Target : Telomerase
Solubility : 10 mM in DMSO



Biological Activity

Teloxantron (Telomerase inhibitor TXT4) is a potent small molecule inhibitor of **telomerase** activity with IC₅₀ of 9.61 uM, 7-fold lower than BIBR1532 (Cat# PC-45170), inhibits the processivity of telomerase with preferential DNA damage on telomeres.

TXT4 induces remarkable and time-dependent induction of DNA damage in TERT-positive (A549 and H460), but not in TERT-negative NHBE normal human bronchial epithelial and ALT-positive U2OS osteosarcoma cell lines.

TXT4 caused an increase in the phosphorylation of ATM and ATR, two main DDR signaling kinases, in both A549 and H460 cells, stimulates apoptotic cell death via the intrinsic and extrinsic pathway in lung cancer cells.

References

Natalia Maciejewska, et al. *Cell Death Dis.* 2022 Nov 28;13(11):1005.

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

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