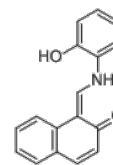


Product Name : HAMNO
Cat. No. : PC-21246
CAS No. : 138736-73-9
Molecular Formula : C₁₇H₁₃NO₂
Molecular Weight : 263.30
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

HAMNO (NSC 111847) is a small molecule protein interaction inhibitor of replication protein A (RPA), specifically inhibits RPA DNA binding domain F (DBD-F), inhibits dsDNA unwinding with IC₅₀ of 9 μM.

HAMNO (NSC 111847) is selective for inhibiting only DBD-F, but not DBDs A-E which are important in RPA binding to ssDNA.

HAMNO (NSC 111847) selectively binds the N-terminal domain of RPA70, effectively inhibiting critical RPA protein interactions.

HAMNO (NSC 111847) induces γ-H2AX staining in a cell-cycle specific manner, alters RPA32 and ATR phosphorylation.

HAMNO (NSC 111847) inhibits both ATR autophosphorylation and phosphorylation of RPA32 Ser33 by ATR.

HAMNO (NSC 111847) enhances etoposide toxicity, HAMNO (NSC 111847) (1mg/kg) slowed the progression of UMSCC11B tumors in mouse xenograft model.

References

Glanzer JG, et al. Cancer Res. 2014 Sep 15;74(18):5165-72.

Glanzer JG, et al. Bioorganic & medicinal chemistry. 2011;19:2589-95.

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

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