

HAMNO

Catalog No: tcsc0034826



Available Sizes

Size: 5mg

Size: 10mg

Size: 25mg

Size: 50mg

Size: 100mg



Specifications

CAS No:

138736-73-9

Formula:

$C_{17}H_{13}NO_2$

Pathway:

Others

Target:

Others

Purity / Grade:

>98%

Solubility:

DMSO : 155 mg/mL (588.70 mM; Need ultrasonic and warming)

Alternative Names:

NSC111847

Observed Molecular Weight:

263.29

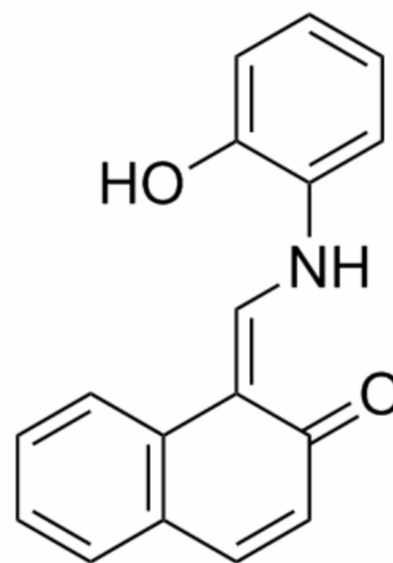
Product Description

HAMNO is a novel protein interaction inhibitor of **replication protein A (RPA)**.

IC50 & Target: RPA^[1]

In Vitro: HAMNO is a novel protein interaction inhibitor of replication protein A (RPA). RPA is involved in the ATR/Chk1 pathway. HAMNO alone inhibits colony formation in both HNSCC cell lines in the low micromolar range. HAMNO combined with etoposide significantly inhibits colony formation to a greater degree than HAMNO alone. After UMSCC38 cells are exposed to HAMNO, increased pan-nuclear γ -H2AX staining occurs in a dose dependent manner. Cancer derived UMSCC38 cells, as well as another cancer cell line, UMSCC11B, have prominent γ -H2AX staining, particularly after incubation with 20 μ M HAMNO. Both UMSCC38 and OKF4 cells present increased γ -H2AX staining after addition of HAMNO, with the greatest increase in signal occurring in S-phase^[1].

In Vivo: In mice, HAMNO slows the progression of UMSCC11B tumors. Ser33 of RPA32, an ATR substrate, is highly phosphorylated after two hours of treatment with 20 μ M of etoposide, which is reduced with the addition of 2 μ M HAMNO, and is nearly absent at higher concentrations, demonstrating an *in vivo* effect of HAMNO as an inhibitor of RPA32 phosphorylation by ATR^[1].



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