Purdue Bioscience

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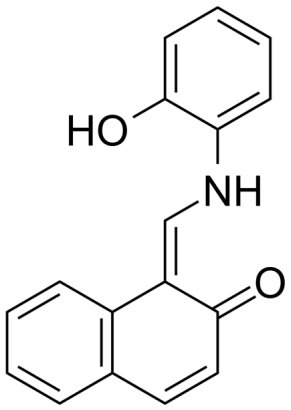
Certificate of Analysis

Catalog Number	BP13255
Product Name	HAMNO

Physical and Chemical Properties

Synonyms	NSC111847
CAS No.	138736-73-9
Chemical Formula	C17H13NO2
Molecular Weight	263.296
Solubility	DMSO: 155 mg/mL
Storage	Powder: -20°C for 2 years In solvent: -80°C for 1 year
Chemical Structure OR Tested Image	

Product Information

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

Targets&IC50	RPA:
In vitro	HAMNO inhibits colony formation in both HNSCC cell lines. The combination of HAMNO with etoposide markedly inhibits colony formation to a greater degree than HAMNO alone. In UMSCC38 cells, HAMNO dose-dependently increased the occurs of pan-nuclear γ-H2AX staining. UMSCC38 and UMSCC11B cells have prominent γ-H2AX staining, particularly after incubation with HAMNO (20 μM). In UMSCC38 and OKF4 cells, HAMNO increased γ-H2AX staining, with the greatest increase in signal occurring in S-phase.
In vivo	In mice, HAMNO inhibits the progression of UMSCC11B tumors. After treatment with etoposide (20 μM, 2 h), Ser33 of RPA32 (an ATR substrate) is highly phosphorylated, which is reduced with the addition of 2 μM HAMNO and is nearly absent at higher concentrations, demonstrating HAMNO can inhibit RPA32 phosphorylation by ATR.

Analytical Data

HPLC	Shows Min >99% purity
H-NMR	Consistent with structure
Stability and Solubility Advice	Information on product stability, especially in solution, has rarely been reported and in most cases we can only provide a general guideline. We recommend that once the stock solution has been prepared, it be stored in equal quantities in sealed vials and used within 1 month. Avoid repeated freezing and thawing cycles. Storage conditions for some special products should be referred to their storage details.

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