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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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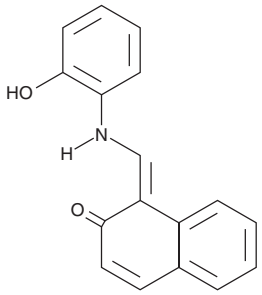
PRODUCT INFORMATION

HAMNO

Item No. 27631

CAS Registry No.:	138736-73-9
Formal Name:	1-[[(2-hydroxyphenyl)amino]methylene]-2(1H)-naphthalenone
MF:	$C_{17}H_{13}NO_2$
FW:	263.3
Purity:	≥95%
UV/Vis.:	λ_{max}: 211, 235, 263, 321, 448, 472 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

HAMNO is supplied as a crystalline solid. A stock solution may be made by dissolving the HAMNO in the solvent of choice, which should be purged with an inert gas. HAMNO is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of HAMNO in these solvents is approximately 30 mg/ml.

HAMNO is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, HAMNO should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. HAMNO has a solubility of approximately 0.25 mg/ml in a 1:30 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

HAMNO is a small molecule inhibitor of replication protein A (RPA).[1] It selectively binds to and inhibits DNA binding domain F (DBD-F) on RPA70 when used at concentrations up to 100 µM. HAMNO inhibits etoposide-induced autophosphorylation of ATR kinase and subsequent phosphorylation of RPA32 in UMSCC38 cells when used at concentrations of 10 and 20 µM. HAMNO (1 mg/kg), in combination with etoposide (Item No. 12092), reduces tumor growth in UMSCC11B and UMSCC38 mouse xenograft models.

Reference

1. Glanzer, J.G., Liu, S., Wang, L., *et al.* RPA inhibition increases replication stress and suppresses tumor growth. *Cancer Res.* **74(18),** 5165-5172 (2014).

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