



SZABO SCANDIC

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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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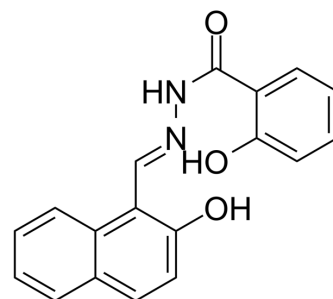
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NSAH

Cat. No.:	HY-114503
CAS No.:	1099592-35-4
Molecular Formula:	C ₁₈ H ₁₄ N ₂ O ₃
Molecular Weight:	306.32
Target:	DNA/RNA Synthesis
Pathway:	Cell Cycle/DNA Damage
Storage:	Powder -20°C 3 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 62.5 mg/mL (204.03 mM; Need ultrasonic)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		3.2646 mL	16.3228 mL	32.6456 mL
	5 mM		0.6529 mL	3.2646 mL	6.5291 mL
	10 mM		0.3265 mL	1.6323 mL	3.2646 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

NSAH is a reversible and competitive nonnucleoside ribonucleotide reductase (RR) inhibitor, with cell-free IC₅₀ of 32 μM and cell-based IC₅₀ of ~250 nM, respectively^[1].

In Vitro

NSAH depresses dGTP and dATP levels in the dNTP pool causing S-phase arrest, providing evidence for RR inhibition in cells^[1].

NSAH (0-10 μM, 2, 6, 24, or 72 h) exhibits potent anti-tumor activity in 3 cancer cell lines^[1].

NSAH blocks S-phase progression well to the extent and timing of the decreases in dATP and dGTP^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Viability Assay^[1]

Cell Line:	MDA-231, HCT116 and Panc1 cancer cell lines.
Concentration:	0-10 μM.
Incubation Time:	2, 6, 24, or 72 h.
Result:	Resulted in IC ₅₀ values ranging from 220 to 500 nM.

REFERENCES

[1]. Md Faiz Ahmad, et al. Potent competitive inhibition of human ribonucleotide reductase by a nonnucleoside small molecule. Proc Natl Acad Sci U S A. 2017 Aug 1;114(31):8241-8246.

Caution: Product has not been fully validated for medical applications. For research use only.

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