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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N4-Acetyl-2'-O-methylcytidine

Cat. No.: HY-W114327

CAS No.: 113886-71-8

Molecular Formula: $C_{12}H_{17}N_3O_6$

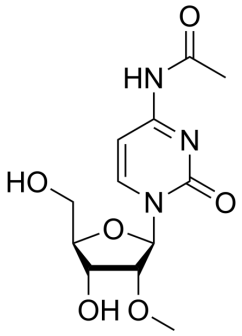
Molecular Weight: 299.28

Target: DNA/RNA Synthesis

Pathway: Cell Cycle/DNA Damage

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (334.14 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.3414 mL	16.7068 mL	33.4135 mL
	5 mM	0.6683 mL	3.3414 mL	6.6827 mL
	10 mM	0.3341 mL	1.6707 mL	3.3414 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (8.35 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (8.35 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (8.35 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

N4-Acetyl-2'-O-methylcytidine (ac4Cm) is an RNA with dual acetylation and methoxidation modifications found in thermophilic archaea. N4-Acetyl-2'-O-methylcytidine has been implicated in the adaptability of archaea in extreme environments, enhancing RNA stability through dual modification[1].

REFERENCES

[1]. Thomas J M, Bryson K M, Meier J L. Nucleotide resolution sequencing of N4-acetylcytidine in RNA[M]//Methods in enzymology. Academic Press, 2019, 621: 31-51.

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