

# Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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# Lieferung & Zahlungsart

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- Expressversand

## SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

linkedin.com/company/szaboscandic in



# PRODUCT INFORMATION



# N<sup>4</sup>-Acetyl-2'-O-methylcytidine

Item No. 40285

CAS Registry No.: 113886-71-8

N-acetyl-2'-O-methyl-cytidine Formal Name:

ac<sup>4</sup>Cm Synonym: MF:  $C_{12}H_{17}N_3O_6$ FW: 299.3 **Purity:** ≥98% Supplied as: A solid Storage: -20°C Stability: ≥4 years

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

#### **Laboratory Procedures**

N<sup>4</sup>-Acetyl-2'-O-methylcytidine (ac<sup>4</sup>Cm) is supplied as a solid. A stock solution may be made by dissolving the ac<sup>4</sup>Cm in the solvent of choice, which should be purged with an inert gas. Ac<sup>4</sup>Cm is soluble in DMSO. Ac<sup>4</sup>Cm is slightly soluble in acetonitrile. It is also slightly soluble in water. We do not recommend storing the aqueous solution for more than one day.

### Description

ac<sup>4</sup>Cm is a pyrimidine nucleoside and a post-transcriptionally modified derivative of cytidine (Item No. 29602).1 ac4Cm has been found in the tRNA and 5S rRNA of Archaea thermophiles and increases RNA rigidity and stability through stronger complimentary base pairing with the purine nucleoside guanosine (Item No. 27702) compared to cytidine. 1,2

#### References

- 1. Kawai, G., Hashizume, T., Yasuda, M., et al. Conformational rigidity of N<sup>4</sup>-acetyl-2'-O-methylcytidine found in tRNA of extremely thermophilic archaebacteria (archaea). Nucleosides and Nucleotides 11(2-4), 759-77 (1992).
- 2. Kowalak, J.A., Dalluge, J.J., McCloskey, J.A., et al. The role of posttranscriptional modification in stabilization of transfer RNA from hyperthermophiles. Biochemistry 33(25), 7869-7876 (1994).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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### **CAYMAN CHEMICAL**

1180 EAST ELLSWORTH RD ANN ARBOR, MI 48108 · USA PHONE: [800] 364-9897

[734] 971-3335

FAX: [734] 971-3640 CUSTSERV@CAYMANCHEM.COM WWW.**CAYMANCHEM**.COM