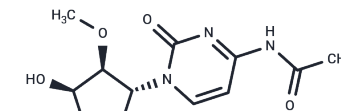


## N4-Acetyl-2'-O-methylcytidine

## Chemical Properties

CAS No. :	113886-71-8
Formula:	C <sub>12</sub> H <sub>17</sub> N <sub>3</sub> O <sub>6</sub>
Molecular Weight:	299.28
Storage:	Store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	N4-Acetyl-2'-O-methylcytidine (ac4Cm) is a doubly modified RNA nucleoside bearing both N4-acetylation and 2'-O-methylation that is predominantly identified in thermophilic archaea. N4-Acetyl-2'-O-methylcytidine contributes to molecular adaptation under extreme environmental conditions by enhancing RNA structural stability, resistance to thermal degradation, and translational fidelity through synergistic chemical modification.
Targets(IC50)	Others

## Solubility Information

Solubility	DMSO: 80 mg/mL (267.31 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.0668 mL	0.3341 mL	0.6683 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Thomas J M, et al. Nucleotide resolution sequencing of N4-acetylcytidine in RNA[M]//Methods in enzymology. Academic Press, 2019, 621: 31-51.

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