

FT-BUC4Y2



INTERFINE CHEMICALS

ANALYTICAL SCIENCES

BIOCHROMATOGRAPHY

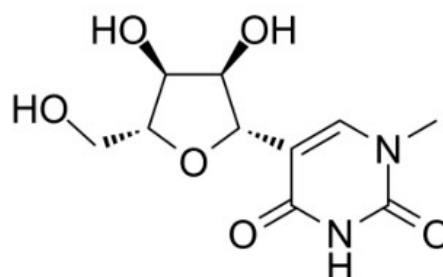
BIOSCIENCES

N1-Methylpseudouridine

Amethylpseudouridine, that outperforms 5 mC and 5 mC/N1-methyl-pseudouridine in translation. N1-methyl-pseudouridine in mRNA enhances translation through eIF2 α -dependent and independent mechanisms by increasing ribosome density.

Product Description

Catalog #:	BUC4Y2, 10 mg
	BUC4Y3, 25 mg
	BUC4Y4, 50 mg
Name:	N1-Methylpseudouridine
	Purity : >99%
	CAS: [13860-38-3]
	MW: 258.23
	C ₁₀ H ₁₄ N ₂ O ₆
Storage:	
	Powder 4°C 2 years
	-20°C 3 years
	In solvent -80°C 6 months
	-20°C 1 month



Technical and Scientific Information

N1-methyl-pseudouridine (1-Methylpseudouridine), a methylpseudouridine, outperforms 5 mC and 5 mC/N1-methyl-pseudouridine in translation. N1-methyl-pseudouridine in mRNA enhances translation through eIF2 α -dependent and independent mechanisms by increasing ribosome density^[1].

In Vitro

DMSO : 125 mg/mL (484.06 mM; Need ultrasonic)

H₂O : 50 mg/mL (193.63 mM; Need ultrasonic)

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: \geq 2.08 mg/mL (8.05 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE- β -CD in saline)
Solubility: \geq 2.08 mg/mL (8.05 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: \geq 2.08 mg/mL (8.05 mM); Clear solution

References

[1]. Svitkin YV, *et al.* N1-methyl-pseudouridine in mRNA enhances translation through eIF2 α -dependent and independent mechanisms by increasing ribosome density. *Nucleic Acids Res.* 2017 Jun 2;45(10):6023-6036.

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[2]. Andries O, *et al.* N(1)-methylpseudouridine-incorporated mRNA outperforms pseudouridine-incorporated mRNA by providing enhanced protein expression and reduced immunogenicity in mammalian cell lines and mice. J Control Release. 2015 Nov 10;217:337-44.

Ordering information

Catalog size quantities and prices may be found at <http://www.interchim.com>.

Please inquire for higher quantities (availability, shipment conditions).

Please contact InterBioTech – Interchim for any other information

Hotline : +33(0)4 70 03 73 06 – Interbiotech@interchim.com

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