

Base Modified Nucleosides and Nucleotides for Epigenetic Research

It has recently come to light that some bases and riboses in RNA sequences undergo chemical modifications such as methylation after transcription. Most of them are found on tRNAs and are known to affect tRNA stability and translation efficiency.¹⁾ The effects of changes in these modifications on the regulation of gene expression and biological phenomena are drawing attention.²⁾ The research field known as "Epitranscriptomics" has created a major trend in the life sciences as a new regulatory mechanism of gene expression at the post-transcriptional stage.³⁾ Recently, diseases caused by defective RNA modifications and modified RNA expression specific to cancer patients have been reported.⁴⁾

These base modified nucleoside triphosphates for transcription have passed DNase and RNase contamination tests and a function test in vitro transcription (IVT). TCI also offers other nucleoside triphosphates and related compounds as well as scale-up manufacturing services. Please feel free to contact us.

Base Modified Nucleoside Triphosphates for Transcription

5-Methylcytidine-5'-triphosphate Sodium Salt (*ca.* 100mM in Water) 0.01mL / 0.25mL [M3583] 5-Methyluridine-5'-triphosphate Sodium Salt (*ca.* 100mM in Water) 0.01mL / 0.25mL [M3582] 5-Methoxyuridine-5'-triphosphate Sodium Salt (*ca.* 85mM in Water) 0.01mL / 0.25mL [M3584] Pseudouridine 5'-Triphosphate Sodium Salt (*ca.* 100mM in Water) 0.01mL / 0.25mL [P3045] N¹-Methylpseudouridine 5'-Triphosphate Sodium Salt (*ca.* 100mM in Water)

0.01mL/0.25mL [M3544]

Base Modified Pyrimidine Nucleosides

<i>N</i> ⁴-Acetylcytidine	5g / 25g <mark>[A3535]</mark>
2'-Deoxy-5-methylcytidine	100mg / 500mg / 5g [D3610]
5-Methylcytidine	1g [M1931]
2'-Deoxy-5-(hydroxymethyl)cytidine	50mg / 200mg [D4220]
5-(Hydroxymethyl)cytidine	50mg / 200mg [H1863]
5-Aza-2'-deoxycytidine	20mg / 100mg [A2232]
5-Azacytidine	100mg/1g <mark>[A2033]</mark>
2'-Deoxy-5-(hydroxymethyl)uridine	50mg / 200mg [D6190]
5-(Hydroxymethyl)uridine	50mg / 200mg [H1866]
5-Methyluridine	1g / 5g / 25g <mark>[M1405]</mark>
2'-Deoxy-4-thiouridine	100mg [D6061]
2'-Deoxy-2'-fluoro-4-thiouridine	25mg / 100mg [D6030]
2-Thiouridine	100mg [T4108]
4-Thiouridine	25mg / 100mg [T4059]
Pseudouridine	25g [P2936]
Pseudouridine (Synthetic)	100mg [P2939]
1-Methylpseudouridine	100mg / 1g [M3387]
6-Azauridine	10mg <mark>[A0559]</mark>

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Ordering and Customer Service

:800-423-8616 / 503-283-1681

:888-520-1075 / 503-283-1987

E-mail : Sales-US@TCIchemicals.com

TCI AMERICA

Tel

Fax

TCI EUROPE N.V. Tel :+32 (0)3 735 07 00

Fax : +32 (0)3 735 07 01 E-mail : Sales-EU@TCIchemicals.com

TCI Deutschland GmbH

Tel :+49 (0)6196 64053-00 Fax :+49 (0)6196 64053-01 E-mail : Sales-DE@TCIchemicals.com

E-mail:Sales-UK@TCIchemicals.com 梯希爱(上海)化成工业发展有限公司

:+44 (0)1865 78 45 60

Tel

Tokyo Chemical Industry UK Ltd.

Tel : 800-988-0390 / 021-67121386 Fax : 021-6712-1385 E-mail : Sales-CN@TCIchemicals.com

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TOKYO CHEMICAL INDUSTRY CO., LTD.

Tel :+81 (0)3-5640-8878 E-mail :globalbusiness@TCIchemicals.com

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