

New



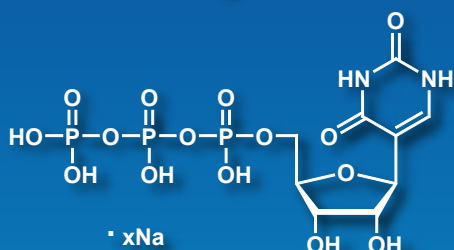
CHEMISTRY



LIFE SCIENCE



Base-Modified Nucleoside Triphosphates for the Development of mRNA Medicines

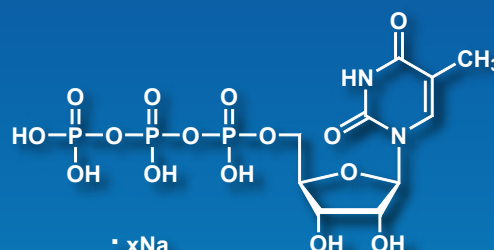


Pseudo-UTP Sodium Salt

(ca. 100mM in Water)

0.01mL / 0.25mL

[P3045]

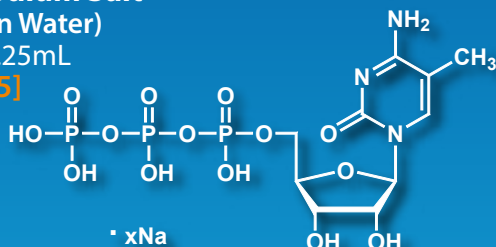


5-Me-UTP Sodium Salt

(ca. 100mM in Water)

0.01mL / 0.25mL

[M3582]

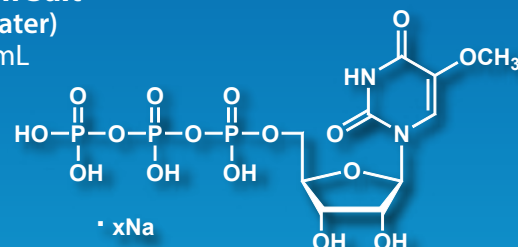


5-Me-CTP Sodium Salt

(ca. 100mM in Water)

0.01mL / 0.25mL

[M3583]



5-OMe-UTP Sodium Salt

(ca. 100mM in Water)

0.01mL / 0.25mL

[M3584]

Numerous studies have suggested that the incorporation of modified nucleosides into mRNA can regulate the functions of immune cells or assign new functions to immune cells.¹⁻⁶⁾ These four products are base-modified nucleoside triphosphates that enhance and modulate the immune response. We synthesize these products in-house and confirm their incorporation into RNA by RNA polymerase, as well as IVT. TCI also offers scale-up synthesis for other nucleoside triphosphates. Please feel free to contact us.

References

- 1) E. Dolgin, *Nature* **2023**, 613, 419. <https://doi.org/10.1038/d41586-023-00042-z>
- 2) K. Kariko *et al.*, *Immunity* **2005**, 23, 165. <https://doi.org/10.1016/j.immuni.2005.06.008>
- 3) K. Kariko *et al.*, *Mol. Ther.* **2008**, 16, 1833. <https://doi.org/10.1038/mt.2008.200>
- 4) B. R. Anderson *et al.*, *Nucleic Acids Res.* **2010**, 38, 5884. <https://doi.org/10.1093/nar/gkq347>
- 5) B. R. Anderson *et al.*, *Nucleic Acids Res.* **2011**, 39, 9329. <https://doi.org/10.1093/nar/gkr586>
- 6) K. Kariko *et al.*, *Nucleic Acids Res.* **2011**, 39, e142. <https://doi.org/10.1093/nar/gkr695>

Related Products

N¹-Methylpseudouridine 5'-Triphosphate Sodium Salt (ca. 100mM in Water)	0.01mL / 0.25mL	[M3544]
1-Methylpseudouridine	100mg / 1g	[M3387]
Pseudouridine (Synthetic)	100mg	[P2939]
5-Methyluridine	1g / 5g / 25g	[M1405]
5-Methylcytidine	1g	[M1931]

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