

New

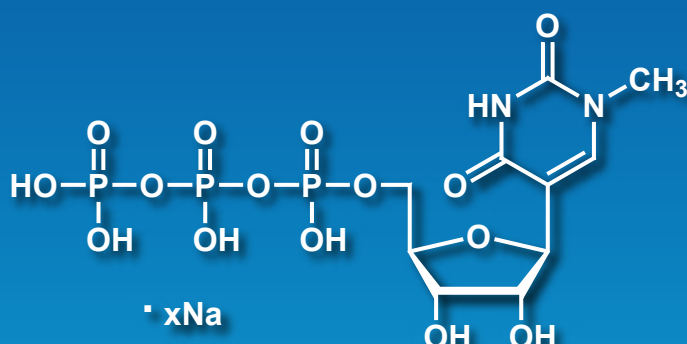
CHEMISTRY

LIFE SCIENCE



Modified RNA Nucleotide N¹-Methylpseudouridine 5'-Triphosphate

A Modified Nucleotide for the Development of Next-Generation Vaccines



**N¹-Methylpseudouridine 5'-Triphosphate
Sodium Salt**
(ca. 100mM in Water)
[for transcription][for Molecular Biology]
0.01mL / 0.25mL
[M3544]

In recent years, numerous studies have demonstrated that mRNA has outstanding abilities to elicit potent immune responses, making it a viable new platform for the development of next-generation vaccines.¹⁾ This product is the 5'-triphosphate sodium salt of 1-methylpseudouridine (m¹Ψ) which enables comparatively high protein yields and is read as uridine (U). Furthermore, m¹Ψ enhances immune evasion and consequently improves vaccine efficacy.^{2,3)}

Advantages

- Guaranteed to be used for the incorporation of it into mRNA by RNA polymerase, as well as transcription.
- Has passed DNase/RNase detection test.
- Synthesized in our company.

References

- 1) L. Miao, Y. Zhang, L. Huang, *Mol. Cancer* **2021**, 20, 41. <https://doi.org/10.1186/s12943-021-01335-5>
- 2) K. D. Nance, J. L. Meier, *ACS Cent. Sci.* **2021**, 7, 748. <https://doi.org/10.1021/acscentsci.1c00197>
- 3) C. J. C. Parr, Y. Kuang, H. Saito, *et al.*, *Nucleic Acids Res.* **2020**, 48, e35. <https://doi.org/10.1093/nar/gkaa070>

TCI also offers other nucleoside triphosphates and related compounds. Please feel free to contact us.

Related Products

**1-Methylpseudouridine
Pseudouridine (Synthetic)**

100mg / 1g [M3387]
100mg [P2939]

Ordering and Customer Service

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