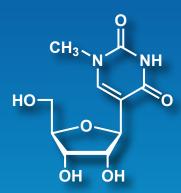


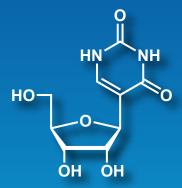




Nucleoside Analogs for Synthetic mRNA Pseudouridines



1-Methylpseudouridine (= $m^1\Psi$) 100mg / 1g



Pseudouridine (Synthetic) (= Ψ) 100mg

In recent years, numerous studies have demonstrated the outstanding abilities of mRNA to elicit potent immunity, making it a viable new platform for vaccine development. Additionally there are reports on incorporation of modified nucleobases into mRNA offering advantages for the generation of potent and long-lived antibody responses. In protein biosynthesis, 1-methylpseudouridine ($m^1\Psi$) and pseudouridine (Ψ) are read like uridine (U) and enable comparatively high protein yields. Furthermore, 1-methylpseudouridine enhances immune evasion, protein production, and consequently vaccine efficacy.^{1,2)} TCI provides these products through the development of our sophisticated manufacturing process.

References 1) O. Andries, S. Mc Cafferty, S. C. De Smedt, R. Weiss, N. N. Sanders, T. Kitada, J. Control. Release 2015, 217, 337. https://doi.org/10.1016/j.jconrel.2015.08.051

2) K. D. Nance, J. L. Meier, ACS Cent. Sci. 2021, 7, 748. https://doi.org/10.1021/acscentsci.1c00197

We also offer scale-up supply of compounds listed in our catalog and custom synthesis of various derivatives. Please feel free to contact us.

Related Product

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