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## Product Data Sheet

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Product Name: 5-OMe-UTP,100mM Sodium Solution

Cat. No.: GB20004

### Chemical Properties

Cas. No.

Formula  $C_{10}H_{14}N_2Na_3O_{16}P_3$  M.Wt 580.11

Solubility Storage Store at -20°C or below, always avoid freeze-thaw cycles.

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure

### Background

5-OMe-UTP,100mM Sodium Solution, a modified form of UTP with a methoxy group attached, is a natural analogue of the triphosphate form of uridine [1]. 5-OMe-UTP,100mM Sodium Solution is a potent and selective P2Y6-Receptor agonist[2]. 5-OMe-UTP,100mM Sodium Solution can be used to incorporate into mRNA using T7 RNA polymerase, thereby reducing the activity and immunogenicity of the resulting mRNA[3].

References:

[1] Furtado D, Cortez-Jugo C, Hung Y H, et al. mRNA treatment rescues Niemann-Pick disease type C1 in patient fibroblasts[J]. Molecular Pharmaceutics, 2022, 19(11): 3987-3999.

[2] Ginsburg-Shmuel T, Haas M, Schumann M, et al. 5-OMe-UDP is a potent and selective P2Y6-receptor agonist[J]. Journal of medicinal chemistry, 2010, 53(4): 1673-1685.

[3] Li B, Zeng C, Dong Y. Design and assessment of engineered CRISPR-Cpf1 and its use for genome editing[J]. Nature protocols, 2018, 13(5): 899-914.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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