

Pseudo-UTP, pseudouridine-5'-O-triphosphate (100 mM)

Cat #: C-BSM1922

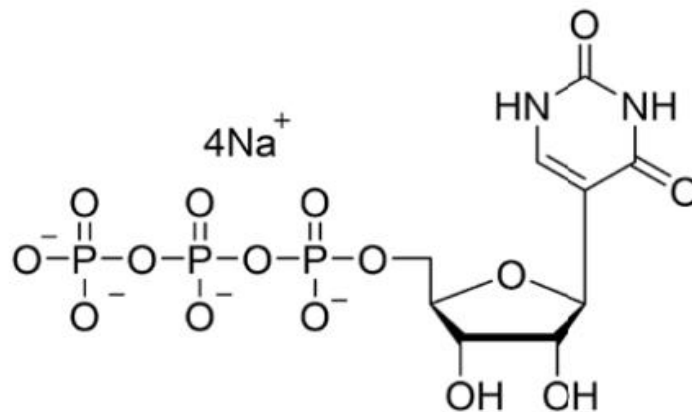
Size: 200 µl

Storage: -20°C

Components

| Components | Amount |
|--|--------|
| Pseudo-UTP, pseudouridine-5'-O-triphosphate (100 mM) | 200 µl |

Note: To avoid repeated freezing and thawing or frequent exposure to temperature changes, it is recommended to aliquot for the first time.



Description

Pseudouridine was discovered in 1951 as the first modified nucleoside found in RNA and is considered to be the "fifth nucleoside" in RNA. Pseudouridine widely exists in tRNA, mRNA, snRNA and snoRNA, and is widely used in nucleic acid drugs. Kariko's team at the University of Pennsylvania found that substituting uridine with pseudouridine can significantly reduce the immunogenicity of in vitro transcribed mRNA and improve mRNA stability and expression intensity. This product is colorless transparent liquid, mainly used in oligonucleotide, aptamer, epigenetic or DNA damage research, in vitro transcription (IVT), mutation induction, photocrosslinking research and other directions.

Technical Information

| | |
|--------------------------|--|
| Shipping | Blue ice/Dry ice |
| Purity | ≥98% (HPLC) |
| Salt type | Na ⁺ |
| Buffer | Tris-HCl |
| Concentration | 100 mM±5% |
| pH | 8.0±0.5 |
| Solubility | Water |
| CAS Number | 1175-34-4 (free acid) |
| Molecular Formula | C ₉ H ₁₅ N ₂ O ₁₅ P ₃ (free acid); C ₉ H ₁₁ N ₂ Na ₄ O ₁₅ P ₃ (Sodium salt) |
| Formula Weight | 484.14 g/mol (free acid); 572.07 g/mol (Sodium salt) |

Note: The product is animal-derived component free, and for research use only.