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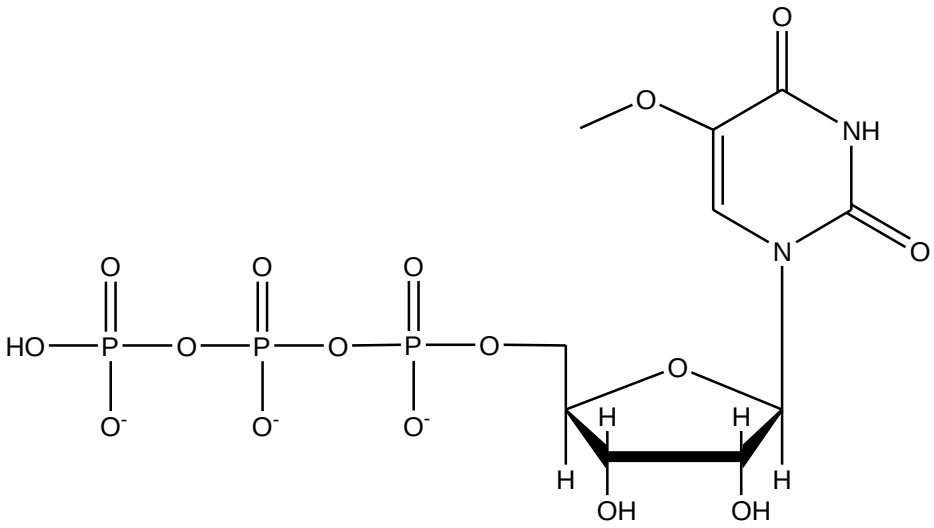
Product Information

Product name: 5-methoxy-uridine-5'-triphosphate (5-Methoxy-UTP).

Cat. number: TMOU-0050, TMOU-0500, TMOU-1000.



5-OMe-UTP, 5-moUTP

Molecular formula (acid): $C_{10}H_{17}N_2O_{16}P_3$.
Molecular weight (acid): 514,167 g/mol.

Description:

The product is a sterile 100 mM solution of 5-Methoxy-UTP ammonium salt in water. The nucleotide has been tested for the presence of endo- and exonuclease activity and is free of DNase and RNase contaminants. Functional activity was confirmed *in vitro* in a transcription reaction. The nucleotide purity according to HPLC is at least 96%.

Application: synthesis of specific mRNA sequences for various purposes, such as gene expression studies and obtaining RNA for functional or structural studies. 5-Methoxy-uridine-5'-triphosphate is incorporated into messenger RNA (mRNA) by T7 RNA polymerase. Incorporation of 5-methoxyuridine can reduce the immunogenicity of the resulting mRNA.

FOR RESEARCH USE ONLY.

Product composition:

Catalog number	Product name	Composition	Quantity
TMOU-0050	5-methoxy-uridine-5'-triphosphate (5-Methoxy-UTP)	100 mM 5-Methoxy-UTP ammonium salt in water	50 µl
TMOU-0500			500 µl
TMOU-1000			1000 µl

Storage and transportation conditions:

Long term storage at -20°C. It is transported in a frozen form, the solution may be defrosted and transported at ambient temperature.

Shelf life: 12 months.