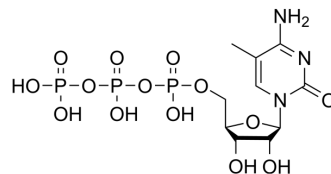


## 5-Methylcytidine 5'-triphosphate

Cat. No.:	HY-147338
CAS No.:	327174-86-7
Molecular Formula:	C <sub>10</sub> H <sub>18</sub> N <sub>3</sub> O <sub>14</sub> P <sub>3</sub>
Molecular Weight:	497.18
Target:	DNA/RNA Synthesis
Pathway:	Cell Cycle/DNA Damage
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

5-Methylcytidine 5'-triphosphate (5-Methyl-CTP) is a modified nucleoside triphosphates. 5-Methylcytidine 5'-triphosphate can apply in replacing unmodified mRNA, resulting in the increase of translational properties and stability, as well as the reduction of innate immune responses in human and other mammalian cells<sup>[1]</sup>.

### REFERENCES

[1]. Shanmugasundaram M, et al. An Efficient Protection-Free One-Pot Chemical Synthesis of Modified Nucleoside-5'-Triphosphates. *Nucleosides Nucleotides Nucleic Acids*. 2016 Jul 2;35(7):356-62.

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

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