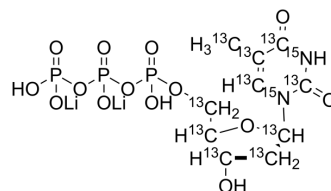


## Deoxythymidine-5'-triphosphate-<sup>13</sup>C<sub>10</sub>,<sup>15</sup>N<sub>2</sub> dilithium

<b>Cat. No.:</b>	HY-138615S4
<b>CAS No.:</b>	2483830-18-6
<b>Molecular Formula:</b>	<sup>13</sup> C <sub>10</sub> H <sub>15</sub> Li <sub>2</sub> <sup>15</sup> N <sub>2</sub> O <sub>14</sub> P <sub>3</sub>
<b>Molecular Weight:</b>	505.95
<b>Target:</b>	Isotope-Labeled Compounds; DNA/RNA Synthesis; Nucleoside Antimetabolite/Analog; Endogenous Metabolite
<b>Pathway:</b>	Others; Cell Cycle/DNA Damage; Metabolic Enzyme/Protease
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Deoxythymidine-5'-triphosphate- <sup>13</sup> C <sub>10</sub> , <sup>15</sup> N <sub>2</sub> (dTTP- <sup>13</sup> C <sub>10</sub> , <sup>15</sup> N <sub>2</sub> ) dilithium is <sup>13</sup> C and <sup>15</sup> N-labeled Deoxythymidine-5'-triphosphate (HY-138615). Deoxythymidine-5'-triphosphate (dTTP) is one of the four nucleoside triphosphates. Deoxythymidine-5'-triphosphate (dTTP) is used in the synthesis of DNA.
<b>In Vitro</b>	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.
- [2]. Tattersall MH, et al. Deoxyribonucleoside triphosphates in human cells: changes in disease and following exposure to drugs. *Eur J Clin Invest*. 1975;5(2):191-202.

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

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