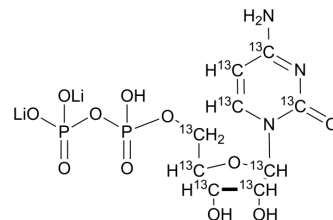


## Cytidine diphosphate-<sup>13</sup>C<sub>9</sub> dilithium

<b>Cat. No.:</b>	HY-113400S1
<b>Molecular Formula:</b>	<sup>13</sup> C <sub>9</sub> H <sub>13</sub> Li <sub>2</sub> N <sub>3</sub> O <sub>11</sub> P <sub>2</sub>
<b>Molecular Weight:</b>	423.98
<b>Target:</b>	Isotope-Labeled Compounds; Endogenous Metabolite
<b>Pathway:</b>	Others; Metabolic Enzyme/Protease
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Cytidine diphosphate- <sup>13</sup> C <sub>9</sub> dilithium is <sup>13</sup> C-labeled Cytidine diphosphate (HY-113400). Cytidine diphosphate is a nucleoside diphosphate that acts as a carrier for phosphorylcholine, diacylglycerol, and other molecules during phospholipid synthesis.
<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]. Method of treating cancer with nucleotide therapeutics. US20220249534 A1.

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

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