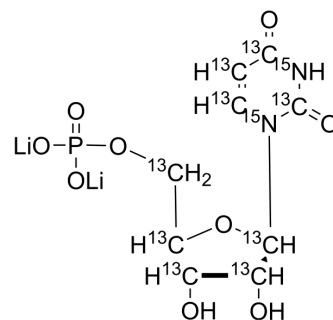


## Uridine 5'-monophosphate-<sup>13</sup>C<sub>9</sub>,<sup>15</sup>N<sub>2</sub> dilithium

<b>Cat. No.:</b>	HY-101981S3
<b>CAS No.:</b>	2483830-55-1
<b>Molecular Formula:</b>	<sup>13</sup> C <sub>9</sub> H <sub>11</sub> Li <sub>2</sub> <sup>15</sup> N <sub>2</sub> O <sub>9</sub> P
<b>Molecular Weight:</b>	346.97
<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>	Uridine 5'-monophosphate- <sup>13</sup> C <sub>9</sub> , <sup>15</sup> N <sub>2</sub> (5'-?Uridylic acid- <sup>13</sup> C <sub>9</sub> , <sup>15</sup> N <sub>2</sub> ) dilithium is <sup>13</sup> C and <sup>15</sup> N-labeled Uridine 5'-monophosphate (HY-101981). Uridine 5'-monophosphate (5'-?Uridylic acid), a monophosphate form of UTP, can be acquired either from a de novo pathway or degradation products of nucleotides and nucleic acids in vivo and is a major nucleotide analogue in mammalian milk.
<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]. Li G, et al. Uridine/UMP metabolism and their function on the gut in segregated early weaned piglets. *Food Funct*. 2019 Jul 17;10(7):4081-4089.

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

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