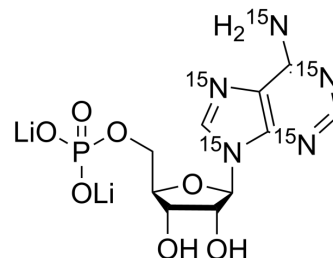


## Adenosine monophosphate-<sup>15</sup>N<sub>5</sub> dilithium

Cat. No.:	HY-A0181S1
Molecular Formula:	C <sub>10</sub> H <sub>12</sub> Li <sub>2</sub> <sup>15</sup> N <sub>5</sub> O <sub>7</sub> P
Molecular Weight:	364.05
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Solution, -20°C, 2 years



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 125 mg/mL (343.36 mM; ultrasonic and warming and heat to 60°C)
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### BIOLOGICAL ACTIVITY

Description	Adenosine monophosphate- <sup>15</sup> N <sub>5</sub> (dilithium) is the <sup>15</sup> N labeled Adenosine monophosphate (HY-A0181) <sup>[1]</sup> . Adenosine monophosphate is a key cellular metabolite regulating energy homeostasis and signal transduction <sup>[2]</sup> .
In Vitro	<p>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>.</p> <p>Adenosine monophosphate is a product of various enzymatic reactions, many of which are dysregulated during disease conditions<sup>[2]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

### REFERENCES

- [1]. Mondal S, et al. Utility of Adenosine Monophosphate Detection System for Monitoring the Activities of Diverse Enzyme Reactions. *Assay Drug Dev Technol.* 2017 Oct/Nov;15(7):330-341.
- [2]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019 Feb;53(2):211-220.

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

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