

Product Data Sheet

Product Name: ATP- ^{13}C 10 , ^{15}N 5 ,d 14 (dilithium)

Cat. No.: GC81669

Chemical Properties

Cas. No.

Formula $^{13}\text{C}_{10}\text{D}_{14}\text{Li}_2^{15}\text{N}_5\text{O}_{13}\text{P}_3$

M.Wt 548.03

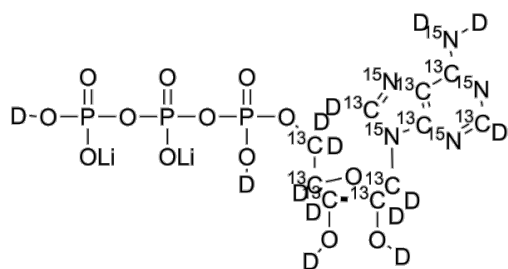
Solubility

Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37°C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

ATP- ^{13}C 10, ^{15}N 5,d 14 (Adenosine 5'-triphosphate- ^{13}C 10, ^{15}N 5,d 14) dilithium is the ^{13}C -, ^{15}N - and deuterium labeled ATP dilithium. ATP (Adenosine 5'-triphosphate) is a central component of energy storage and metabolism in vivo. ATP provides the metabolic energy to drive metabolic pumps and serves as a coenzyme in cells. ATP is an important endogenous signaling molecule in immunity and inflammation. ATP can activate the NLRP3 inflammasome and induce IL- 1β and chemokines secretion. ATP has anti-bacterial infection effects and can protect mice against bacterial infection in mice.

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

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In Vitro, 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.

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