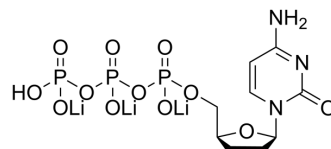


## ddCTP trilithium

|                    |  |
|--------------------|--|
| Cat. No.:          | HY-137697B   |
| CAS No.:           | 93939-77-6   |
| Molecular Formula: | C <sub>9</sub> H <sub>13</sub> Li <sub>3</sub> N <sub>3</sub> O <sub>12</sub> P <sub>3</sub> |
| Molecular Weight:  | 468.96   |
| Target:            | DNA/RNA Synthesis; HIV Protease  |
| Pathway:           | Cell Cycle/DNA Damage; Anti-infection; Metabolic Enzyme/Protease                             |
| Storage:           | Please store the product under the recommended conditions in the Certificate of Analysis.    |



### BIOLOGICAL ACTIVITY

#### Description

ddCTP trilithium is one of 2',3'-dideoxyribonucleoside 5'-triphosphates (ddNTPs) that acts as chain-elongating inhibitor of DNA polymerase for DNA sequencing. ddCTP trilithium is a nucleoside analog that targets the reverse transcriptase of human immunodeficiency virus (HIV). ddCTP trilithium can be used for AIDS research<sup>[1][2]</sup>.

### REFERENCES

- [1]. Z G Chidgeavadze, et al. 3'-Fluoro-2',3'-dideoxyribonucleoside 5'-triphosphates: terminators of DNA synthesis. FEBS Lett. 1985 Apr 22;183(2):275-8.
- [2]. Pelletier H, et al. Structures of ternary complexes of rat DNA polymerase beta, a DNA template-primer, and ddCTP. Science. 1994 Jun 24;264(5167):1891-903.

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

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