

## NHC-diphosphate triammonium Biochemical

NHC-diphosphate triammonium

 CATALOG #  
**AAA227226**

### PRODUCT SYNONYMS

NHC-diphosphate triammonium; NHC-diphosphate triammonium biochemical

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| Purity/Purification     | 98%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Solubility              | H <sub>2</sub> O: 160 mg/mL (340.23 mM),<br>Need ultrasonic and warming<br><1mg/ml refers to the product slightly soluble or insoluble                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| In vitro                | In an intracellular metabolism assay, HCV replicon cells are treated with 10 uM 3H-labeled NHC, and intracellular nucleotide levels are determined after 1, 2 and 8 hours incubations. NHC is rapidly converted into the mono-, di-, and triphosphate forms, and NHC-TP reaches up to 71.12 pM after 8 hours[1]. NHC-triphosphate triammonium (NHC-TP) (5-40 uM) absence leads to full-length polymerization products, it can be a weak alternative substrate. In addition, incorporation of NHC-TP instead of CTP increases the molecular weight of the polymerization product by 16 (one extra oxygen) for each event and an obvious electrophoretic shift is observed in cell-free HCV NS5B polymerization reactions[1]. Huh-7 cells are incubated with (10-50 uM; 4 h) NHC or a McGuigan phosphoramidate prodrug of NHC. Intracellular levels of the parental compounds and phosphorylated metabolites are measured using LC-MS/MS. Small amounts of NHC-monophosphate (MP) and NHC-diphosphate (DP) can be observed, while NHC-triphosphate triammonium remains the most abundant metabolite[2]. NHC-triphosphate triammonium (NHC-TP) metabolite may directly target the viral polymerase and behave as a nonobligate chain terminator. It plays a prominent role in inhibiting early negative-strand RNA synthesis, either through chain termination or mutagenesis, which may in turn interfere with correct replicase complex formation. |
| Preparation and Storage | Powder: -20 degree C for 3 years<br>In solvent: -80 degree C for 2 years                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

### IMAGES

 ATQRLANFLVHSSNNFGAILSSTNVGSNTY-NH<sub>2</sub>

#### Structure

Amylin (8-37), human, CAS 135702-23-7

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ADDITIONAL INFORMATION

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| Related Product Information for NHC-diphosphate triammonium biochemical | NHC-triphosphate triammonium is an active phosphorylated intracellular metabolite of beta-d-N4-Hydroxycytidine (NHC) as a triphosphate form[1]. NHC-triphosphate triammonium is a weak alternative substrate for the viral polymerase and can be incorporated into HCV replicon RNA[1][2]. |
| References                                                              | 1. H C Champion, et al. Analysis of responses to hAmylin, hCGRP, and hADM in isolated resistance arteries from the mesenteric vascular bed of the rat. Peptides. 2001 Sep;22(9):1427-34.                                                                                                   |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/biochemical/nhc-diphosphate-triammonium/227226>