Cayman Chemical
Mailing address
1180 E. Ellsworth Road
Ann Arbor, MI 48108 USA
Phone
(800) 364-9897
(734) 971-3335
Fax
(734) 971-3640
E-Mail
custserv@caymanchem.com
Web
www.caymanchem.com

Product Information

2’,3’-Dideoxyadenosine 5’-triphosphate
Item No. 17460

CAS Registry No.: 24027-80-3
Formal Name: 2’,3’-dideoxyadenosine 5’-(tetrahydrogen triphosphate)
Synonyms: ddATP
MF: C_{10}H_{16}N_5O_{11}P_3
FW: 475.2
Purity: ≥99%
Stability: ≥1 year at -20°C
Supplied as: A clear aqueous solution

Laboratory Procedures
For long term storage, we suggest that 2’,3’-dideoxyadenosine 5’-triphosphate (ddATP) be stored as supplied at -20°C. It should be stable for at least one year and is supplied as a clear aqueous solution.

ddATP is an in vitro inhibitor of reverse transcriptases from retroviruses, including HIV-1 and visna (Kᵢ = 20 and 37 nM, respectively). It also blocks, in vitro, mammalian and bacterial DNA polymerases. ddATP produced intracellularly by the phosphorylation of exogenously supplied 2’,3’-dideoxyadenosine, competes with dATP, resulting in chain termination. Because of this activity, dideoxynucleoside 5’-triphosphates, including ddATP, are used to terminate chain extension produced by the Taq polymerase used in polymerase chain reactions. It is also an antagonist of the purinergic receptor P2X₂/₃ (pIC₅₀ = 6.5). For a list of related products please visit: www.caymanchem.com/catalog/17460

References

Related Products
For a list of related products please visit: www.caymanchem.com/catalog/17460

WARNING: This product is for laboratory research only; not for administration to humans. Not for human or veterinary diagnostic or therapeutic use.

SAFETY DATA
This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent to your institution.

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