
Product Data Sheet

Product Name: EFdA-TP tetraammonium

Cat. No.: GC62607

Chemical Properties

Cas. No.

Formula $C_{12}H_{27}FN_9O_{12}P_3$

M.Wt

601.32

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

EFdA-TP tetraammonium is a potent nucleoside reverse transcriptase (RT) inhibitor. EFdA-TP tetraammonium inhibits RT-catalyzed DNA synthesis as an effective immediate or delayed chain terminator (ICT or DCT). EFdA-TP tetraammonium inhibits HIV-1 RT with multiple mechanisms[1].

EFdA-TP tetraammonium (0.05-10 μ M; for 15 min) inhibits RT-catalyzed DNA synthesis as an ICT or DCT[1]. EFdA-TP tetraammonium can block RT as a translocation-defective RT inhibitor that dramatically slows DNA synthesis, acting as a de facto immediate chain terminator. EFdA-TP tetraammonium can function as a delayed chain terminator, allowing incorporation of an additional dNTP before blocking DNA synthesis[1].

[1]. Martin Markowitz, et al. 4'-Ethynyl-2-fluoro-2'-deoxyadenosine, MK-8591: a novel HIV-1 reverse transcriptase translocation inhibitor. Curr Opin HIV AIDS. 2018 Jul;13(4):294-299.

[2]. Eleftherios Michailidis, et al. 4'-Ethynyl-2-fluoro-2'-deoxyadenosine (EFdA) inhibits HIV-1 reverse transcriptase with multiple mechanisms. J Biol Chem. 2014 Aug 29;289(35):24533-48.

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

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