

Product Data Sheet

Product Name: (S)-HPMPA

Cat. No.: GC79102

Chemical Properties

Cas. No. 92999-29-6

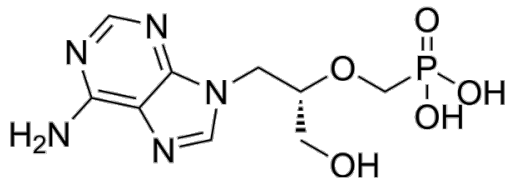
Formula $C_9H_{14}N_5O_5P$ M.Wt 303.21

Solubility H_2O : 62.5 mg/mL (206.13 mM; Need ultrasonic) Storage Store at $-20^{\circ}C$

General tips For obtaining a higher solubility, please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ 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

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

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(S)-HPMPA is an antiviral agent. (S)-HPMPA can bind to and interfere with viral DNA polymerase activity, thereby inhibiting viral DNA synthesis. (S)-HPMPA can be used for the study of DNA viruses [1] [2].

In Vitro, (S)-HPMPA is a good substrate for vaccinia DNA polymerase, readily incorporating into the DNA strand without causing strand termination; instead, it exerts its inhibitory effect by inhibiting 3'-to-5' exonuclease activity and blocking template strand elongation^[1]. (S)-HPMPA (1-100 µg/mL, 24-72 h) can effectively inhibit viral replication in primary rabbit kidney cells^[2].

References:

- [1]. Hostetler KY. Alkoxyalkyl prodrugs of acyclic nucleoside phosphonates enhance oral antiviral activity and reduce toxicity: current state of the art. Antiviral Res. 2009 May;82(2):A84-98.
- [2]. De Clercq E, et al. A novel selective broad-spectrum anti-DNA virus agent. Nature. 1986 Oct 2-8;323(6087):464-7.

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