Chemical Properties

Product Name: Entecavir Hydrate
Cas No.: 209216-23-9
M.Wt.: 295.29
Formula: C12H15N5O3.H2O

Chemical Name: 2-amino-9-[(3R,4S)-4-hydroxy-3-(hydroxymethyl)-2-methylidenecyclopentyl]-3H-purin-6-one;hydrate
Canonical SMILES: C=C1(C(C(C(C1CO)O)N2=C=NC2=NC3=O)N.O
Solubility: >9.7mg/mL in DMSO
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.
Shopping Condition: Evaluation sample solution: ship with blue ice
All other available size: ship with RT, or blue ice upon request

Biological Activity

Targets: Microbiology & Virology
Pathways: Reverse Transcriptase
Description:
Entecavir hydrate is a reverse transcriptase inhibitor. Reverse transcriptase (RT) is used to generate complementary DNA (cDNA) from an RNA template, which is mainly associated with retroviruses, such as HBV. Entecavir hydrate is an oral antiviral drug used in the treatment of hepatitis B virus (HBV)
Infection. In 17 patients with hepatitis B virus (HBV) genotype C, treatment with peginterferon (PEG-IFN) a-2b combination with entecavir hydrate (ETV) for 48 weeks. Among 11 patients exhibited pretherapy HBeAg, 8 showed HBeAg seroconversion. Serum HBV DNA levels reduced by 5.2 and 3.3 log copies/ml by the end of the therapy and follow-up periods, respectively. Intrahepatic cccDNA reduced to 1.4 log copies/mg.

Reference:

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most ApexBio products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Short-term storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.