Entecavir (hydrate)
Item No. 13831

CAS Registry No.: 209216-23-9
Formal Name: 2-amino-1,9-dihydro-9-[(1S,3R,4S)-4-hydroxy-3-(hydroxymethyl)-2-methylencyclopropenyl]-6H-purin-6-one, monohydrate
Synonyms: BMS 200475, Baraclude, SQ 34.676
MF: C12H15N5O3 • H2O
FW: 295.3
Purity: ≥95%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid

Entecavir is a potent deoxyguanosine nucleoside analog with antiviral activity selective for hepadnaviruses (EC50 = 3.7 nM against the hepatitis B virus (HBV) in cultured 2.2.15 liver cells).1 In vitro, the active intracellular form of entecavir, entecavir triphosphate, demonstrates a higher binding affinity for HBV DNA polymerase than the natural guanosine triphosphate substrate and effectively inhibits HBV DNA replication at 3 stages in the replication pathway: priming, reverse transcription, and DNA-dependent DNA synthesis.2 The potential therapeutic benefits of entecavir have been demonstrated in woodchuck and duck models of HBV.3 Activity was confirmed in phase I/II preclinical studies and entecavir received approval from the U.S. Food and Drug Administration for the treatment of adults with chronic hepatitis B.4

References

Related Products
For a list of related products please visit: www.caymanchem.com/catalog/13831

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS, NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

MATERIAL 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 Material Safety Data Sheet, which has been sent via email to your institution.

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