Abacavir (sulfate)

Item No. 14746

CAS Registry No.: 216699-07-9
Formal Name: 4-[2-amino-6-(cyclopropylamino)-9H-purin-9-yl]-1(S,4R)-2-cyclopentene-1-methanol sulfate
MF: C_{14}H_{18}N_{6}O • H_{2}SO_{4}
FW: 384.4
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: \(\lambda_{\text{max}}\) 223, 258, 289 nm

Laboratory Procedures

For long term storage, we suggest that abacavir (sulfate) be stored as supplied at -20°C. It should be stable for at least two years.

Abacavir (sulfate) is supplied as a crystalline solid. A stock solution may be made by dissolving the abacavir (sulfate) in the solvent of choice. Abacavir (sulfate) is soluble in DMSO at a concentration of approximately 0.15 mg/ml.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of abacavir (sulfate) can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of abacavir (sulfate) in PBS, pH 7.2, is approximately 1 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Abacavir is an antiviral analog of guanosine, inhibiting the reverse transcriptase of HIV type 1 with an IC_{50} value of 5.3 μM.¹ This blocks retroviral replication, which assists in retroviral therapy.² Abacavir, commonly used in combination with other antiretroviral compounds, has been associated with a diagnosis of hypersensitivity syndrome.² ³

References


Related Products

For a list of related products please visit: www.caymanchem.com/catalog/14746

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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 via email to your institution.

WARRANTY AND LIMITATION OF REMEDY

Cayman Chemical Company makes no warranty or guarantee of any kind, whether written or oral, expressed or implied, including without limitation, any warranty of fitness for a particular purpose, salability and merchantability, which extends beyond the description of the chemicals hereto. Cayman warrants only to the original customer that the material will meet our specifications at the time of delivery. Cayman will carry out its delivery obligations with due care and skill. Thus, in no event will Cayman have any obligation or liability, whether in tort (including negligence) or in contract, for any direct, indirect, incidental or consequential damages, even if Cayman is informed about their possible existence.

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Buyer’s exclusive remedy and Cayman’s sole liability shall be limited to a refund of the purchase price, or at Cayman’s option, the replacement, at no cost to Buyer, of all material that does not meet our specifications.

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