

**Centre For AIDS Reagents**

**Data Sheet**

<b>NAME:</b>	Abacavir
<b>REPOSITORY REFERENCE:</b>	ARP975
<b>DESCRIPTION:</b>	Abacavir is a carbocyclic nucleoside analogue. Intracellularly, abacavir is converted by cellular enzymes to carbovir triphosphate, an analogue of deoxyguanosine-5'-triphosphate. Carbovir triphosphate inhibits the activity of HIV-1 reverse transcriptase both by competing with natural substrate dGTP and by its incorporation into viral DNA. The lack of a 3'-OH group in the incorporated nucleoside analogue prevents the formation of the 5' to 3' phosphodiester linkage essential for DNA chain elongation
<b>PRESENTATION:</b>	25 mg
<b>SOLUBILITY:</b>	Solubility in water: 80 mM
<b>MELTING POINT:</b>	165°C
<b>CHEMICAL NAME:</b>	(1 <i>S</i> , <i>cis</i> )-4-[2 amino-6-(cyclopropylamino)-9H-purin-9-yl]- 2-cyclopentene-1-methanol sulfate (salt)
<b>MOLECULAR FORMULA:</b>	C <sub>14</sub> H <sub>18</sub> N <sub>6</sub> O
<b>MOLECULAR WEIGHT:</b>	286.33
<b>STORAGE:</b>	Room temperature, cool, dark, dry.
<b>SOURCE:</b>	Sequoia Research Products.
<b>ACKNOWLEDGEMENT:</b>	Publications should acknowledge the donor of the reagent and the Programme EVA Centre for AIDS Reagents. Suggested wording can be found on our website at <a href="http://www.nibsc.ac.uk/spotlight/aidsreagent/index.html">http://www.nibsc.ac.uk/spotlight/aidsreagent/index.html</a> in the "Acknowledgements" section. Please also ensure that you send us a copy of any papers resulting from work using reagents acquired through CFAR (this can be Electronically or as a paper copy)