

### **(1S,4R)-4-Amino-2-cyclopentene-1-methanol**

Art. ID TRC-A603935-2.5G  
Unit 2.5 g

#### Description

Category: Chiral Reagents, Intermediates, Nucleotides, Bases and Related Reagents /// Application Notes:  
(1S,4R)-4-Amino-2-cyclopentene-1-methanol is a reagent for preparing cyclic ADP-carbocyclic-ribose analogs via Yoshikawa's phosphorylation and cyclocondensation (1). (1S,4R)-4-Amino-2-cyclopentene-1-methanol is also an intermediate for the synthesis of Abacavir (A105000). Abacavir is a carbocyclic 2'-deoxyguanosine nucleoside reverse transcriptase inhibitor and an anti-HIV drug used to treat HIV infection (2). Intracellular enzymes convert Abacavir to its active form, carbovir-triphosphate (CBV-TP), which then selectively inhibits HIV reverse transcriptase by incorporating into viral DNA (3). Abacavir is metabolized in the liver by uridine diphosphate glucuronyltransferase and alcohol dehydrogenase resulting in inactive glucuronide and carboxylate metabolites, respectively.

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
	(1S,4R)-4-Amino-2-cyclo pentene-1-methanol	[136522-35-5]				