

(1R,4S)-4-Amino-2-cyclopentene-1-carboxylic Acid Methyl Ester Hydrochloride

Art. ID	TRC-A596515-10G
Unit	10 g
Deliverydetails	ADR Excepted Quantity (EQ) / AIR Excepted Quantity (EQ)

Description

Application Note: (1R,4S)-4-Amino-2-cyclopentene-1-carboxylic Acid Methyl Ester Hydrochloride is an intermediate used in the synthesis of ent-Abacavir (A105015), which is an enantiomer of Abacavir (A105000). Abacavir is a carbocyclic 2'-deoxyguanosine nucleoside reverse transcriptase inhibitor and an anti-HIV drug used to treat HIV infection (1). Intracellular enzymes convert Abacavir to its active form, carbovir-triphosphate (CBV-TP), which then selectively inhibits HIV reverse transcriptase by incorporating into viral DNA (2). 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
	(1R,4S)-4-Amino-2-cyclopentene-1-carboxylic Acid Methyl Ester Hydrochloride	[426226-35-9]				