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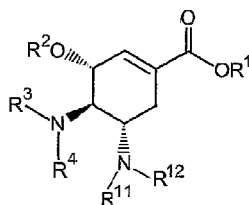
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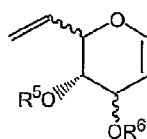
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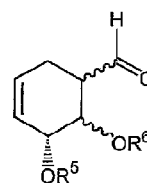
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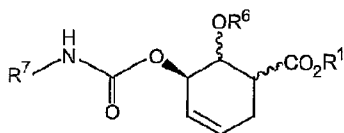
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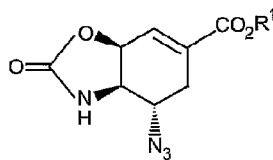
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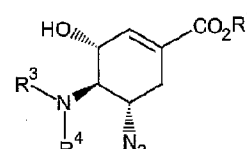
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(3)



(13)



(2)

(57) Abstract: A process is provided for the synthesis of 4,5-diamino cyclohexene carboxylate ester (1): or a pharmaceutically acceptable salt thereof. R¹ - R³ are a silyl-, an aliphatic, alicyclic, aromatic, arylaliphatic, or an arylalicyclic group. R⁴, R¹¹ and R¹² are H, a silyl-group, an aliphatic, alicyclic, aromatic, arylaliphatic, or an arylalicyclic group. 3,4-Dihydropyran compound (9): with R⁵ and R⁶ being suitable protecting groups, is reacted to form aldehyde (4): which is oxidized and converted to N-substituted carbamate (3): with R⁷ being a suitable protecting group. (3) is, via oxazolidinone (13): converted to azido carboxylate ester (2): and then to 4,5-diamino cyclohexene carboxylate ester (1).

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