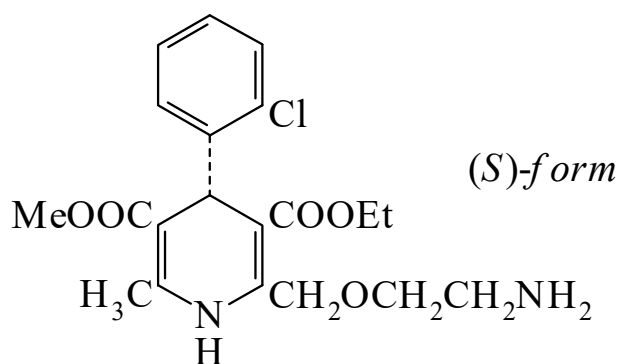




>>Entry Name: Amlodipine, BAN, INN

Synonym(s): 3-Ethyl 5-methyl 2-[(2-aminoethoxy)methyl]-4-(2-chlorophenyl)-1,4-dihydro-6-methyl-3,5-pyridinedicarboxylate, 9Cl. Amlor. Antacal. Astudal. Istin. Monopina. Norvas. Norvasc



CAS Registry Number: 88150-42-9

Related CAS Registry Numbers(s): 150566-71-5 156366-25-5

Molecular Formula: $C_{20}H_{25}ClN_2O_5$

Molecular Weight: 408.881

Accurate Mass: 408.1452

Percentage Composition: C 58.75%; H 6.16%; Cl 8.67%; N 6.85%; O 19.56%

Biological Use/Importance: Ca channel blocker. Antianginal, antihypertensive agent

Development Status: Marketed drug. Launched 1990. Worldwide 4th best selling prescription drug as Norvasc (besylate) (\$3.4 bn) (Pfizer) and 61st best selling prescription drug as Lotrel (combination with [GRL02-F](#)) (\$0.75 bn) (Novartis) (2000, Pharma Business)

pKa Value: pK_a 8.6

Calculated Log P Data: Log P 2.78 (uncertain value) (calc)

Other Data: Component of Lotrel

>>Variant: (R)-form

CAS Registry Number: 103129-81-3

Molecular Formula: $C_{20}H_{25}ClN_2O_5$

Molecular Weight: 408.881

Accurate Mass: 408.1452

Percentage Composition: C 58.75%; H 6.16%; Cl 8.67%; N 6.85%; O 19.56%

>>Derivative: Maleate

CAS Registry Number: 103188-90-5

Physical Description: Cryst. (2-propanol/diisopropyl ether)

Melting Point: Mp 158°

Optical Rotation: $[\alpha]_D^{25}$ -26.21 (c, 1.16 in MeOH)

>>Variant: (S)-form

CAS Registry Number: 103129-82-4

Molecular Formula: $C_{20}H_{25}ClN_2O_5$

Molecular Weight: 408.881

Accurate Mass: 408.1452

Percentage Composition: C 58.75%; H 6.16%; Cl 8.67%; N 6.85%; O 19.56%

>>Derivative: Maleate

CAS Registry Number: 103188-91-6

Physical Description: Cryst. (2-propanol/diisopropyl ether)

Melting Point: Mp 165-167°

Optical Rotation: $[\alpha]_D^{25}$ +26.3 (c, 1.06 in MeOH)

Other Data: Pharmacol. active isomer

>>Variant: (±)-form

CAS Registry Number: 103069-18-7

Molecular Formula: $C_{20}H_{25}ClN_2O_5$

Molecular Weight: 408.881

Accurate Mass: 408.1452

Percentage Composition: C 58.75%; H 6.16%; Cl 8.67%; N 6.85%; O 19.56%