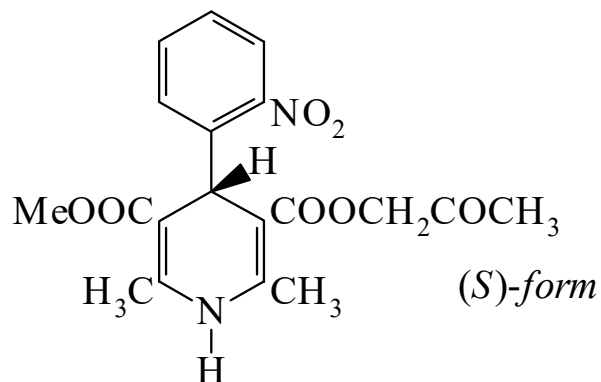




>>Entry Name: Aranidipine

Synonym(s): Methyl 2-oxopropyl 1,4-dihydro-2,6-dimethyl-4-(2-nitrophenyl)-3,5-pyridinedicarboxylate, 9Cl. Asanidipine. Bec. Sapresta. MPC 1304



CAS Registry Number: 86780-90-7

Related CAS Registry Numbers(s): 148372-43-4

Molecular Formula: C₁₉H₂₀N₂O₇

Molecular Weight: 388.376

Accurate Mass: 388.127053

Percentage Composition: C 58.76%; H 5.19%; N 7.21%; O 28.84%

Use/Importance: Calcium antagonist. Used in the treatment of hypertension and angina

Development Status: Launched 1996 (Japan) (Taiho/Maruko)

Calculated Log P Data: Log P 1.79 (uncertain value) (calc)

Hazard & Toxicity: LD₅₀ (rat, orl) 1459 mg/kg. Exp. reprod. and fetotoxic effects

>>Variant: (S)-form

CAS Registry Number: 148372-44-5

Molecular Formula: C₁₉H₂₀N₂O₇

Molecular Weight: 388.376

Accurate Mass: 388.127053

Percentage Composition: C 58.76%; H 5.19%; N 7.21%; O 28.84%

Other Data: Pharmacol. active isomer

>>Variant: (±)-form

Molecular Formula: C₁₉H₂₀N₂O₇

Molecular Weight: 388.376

Accurate Mass: 388.127053

Percentage Composition: C 58.76%; H 5.19%; N 7.21%; O 28.84%

Physical Description: Yellow prisms (EtOH)

Melting Point: Mp 154-156°

References:

Fr. Pat., 1983, Maruko, 2 514 761; CA, **99**, 88063a, (synth)

Ohno, S. et al., Chem. Pharm. Bull., 1986, **34**, 1589, (synth, pmr, ms, pharmacol)

Iida, Y. et al., J. Chromatogr., 1991, **571**, 277, (hplc)

Kanda, A. et al., J. Cardiovasc. Pharmacol., 1992, **20**, 723; 1993, **22**, 167, (pharmacol)

Okumura, K. et al., Eur. J. Pharmacol., 1993, **235**, 69, (pharmacol)