

Highlighting Online Vendors of *The Merck Index* CambridgeSoft

SEARCH: A sub-structure search to identify compounds with the following structure fragment.

Use ChemDraw toolbar to draw structure

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1 Current Session(s)
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HOMEPAGE BASIC SEARCH STRUCTURE SEARCH ORGANIC NAME REACTIONS SUPPLEMENTAL TABLES

Total Records 11239

File Queries Hit Lists Marked Hits Help

Search Clear Form Retrieve All

Tool x

Search Active Monographs Search Active + Retired Monographs

STRUCTURE SEARCH Help

Substructure

Full Screen Edit

TEXT SEARCH Help

Compound Names
CAS Registry Number
Literature References

Monograph Title
Non-Medical Uses

List view provides quick comparison of structures

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HOMEPAGE BASIC SEARCH STRUCTURE SEARCH ORGANIC NAME REACTIONS SUPPLEMENTAL TABLES

Total Records 11239

Total Hits 20

Record 1-20 of 20

Record 1 of 20	Title: Amlodipine Monograph Number: 491 Molecular Formula: $C_{20}H_{25}N_2O_5$ Molecular Weight: 406.89 Derivative Types: Malate, Benzoesulfonate	
Record 2 of 20	Title: Arandipine Monograph Number: 767 Molecular Formula: $C_{19}H_{20}N_2O_7$ Molecular Weight: 388.37 Derivative Types:	
Record 3 of 20	Title: Azindipine Monograph Number: 507 Molecular Formula: $C_{22}H_{24}N_2O_6$ Molecular Weight: 562.65 Derivative Types:	
Record 4 of 20	Title: Bendipine Monograph Number: 1002 Molecular Formula: $C_{27}H_{28}N_2O_6$ Molecular Weight: 491.54 Derivative Types: Hydrochloride	
Record 5 of 20	Title: Bendipine Monograph Number: 1043 Molecular Formula: $C_{22}H_{24}N_2O_6$ Molecular Weight: 505.56 Derivative Types: Hydrochloride	
Record 6 of 20	Title: Clonidine Monograph Number: 2275 Molecular Formula: $C_{12}H_{12}N_2O_7$ Molecular Weight: 452.52 Derivative Types:	
Record 7 of 20	Title: Clonidine Monograph Number: 2952 Molecular Formula: $C_{22}H_{24}Cl_2NO_6$ Molecular Weight: 456.32 Derivative Types:	
Record 8 of 20	Title: Etindipine Monograph Number: 3524 Molecular Formula: $C_{24}H_{28}N_2O_7P$ Molecular Weight: 621.66 Derivative Types: Hydrochloride, ethanol, (S) or (R)-Form	

Identifies dihydropyridine derivatives with antihypertensive &/or calcium channel blocker activity

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Record 2 of 20

Monograph number: 00767

Title: Arandipine

CAS Registry Number: 96780-90-7

CAS Name: 1,4-Dihydro-2,6-dimethyl-4-(2-nitrophenyl)-3,5-pyridinedicarboxylic acid methyl 2-oxopropyl ester

Additional Names: (±)-methyl 2-oxopropyl 1,4-dihydro-2,6-dimethyl-4-(2-nitrophenyl)-3,5-pyridinedicarboxylate; (±)-acetonyl methyl 1,4-dihydro-2,6-dimethyl-4-(2-nitrophenyl)-3,5-pyridinedicarboxylate

Manufacturers' Codes: MPC-1304

Trademarks: Sapresta (Taiho)

Molecular Formula: $C_{19}H_{20}N_2O_7$

Molecular Weight: 388.37

Percent Composition: C 58.76%, H 5.19%, N 7.21%, O 28.84%

Literature References: Calcium channel blocker. Prepr. S. Ohno *et al.*, *FR 2514761*; *idem*; *US 4446325* (1983, 1984 both to Maruko Selyaku); *idem et al.*, *Chem. Pharm. Bull.* **34**, 1589 (1986). Pharmacology and receptor binding studies: K. Miyoshi *et al.*, *Eur. J. Pharmacol.* **238**, 139 (1993). Determined by GC-MS in plasma and urine: Y. Umeno *et al.*, *J. Chromatogr.* **434**, 123 (1988); by HPLC in plasma: Y. Iida *et al.*, *ibid.* **571**, 277 (1991). Cardiovascular profile: A. Kanda *et al.*, *J. Cardiovasc. Pharmacol.* **22**, 167 (1993). Clinical pharmacology: S. Suzuki *et al.*, *Azimein-Forsch.* **43**, 1152 (1993). Toxicity studies: S. Nakano *et al.*, *Yakuri to Chiryō* **21**, S931 (1993), *C.A.* **119**, 131216 (1993).

Properties: Yellow prisms from ethyl acetate/hexane, mp 155°. LD₅₀ in male, female mice, rats (mg/kg): 143, 193, 1982, 1459 orally; LD₅₀ in male, female mice (mg/kg): 7.3, 9.1 i.p. (Nakano).

Therapeutic Category: Antihypertensive.

Keywords: Antihypertensive; Dihydropyridine Derivatives; Calcium Channel Blocker; Dihydropyridine Derivatives.

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