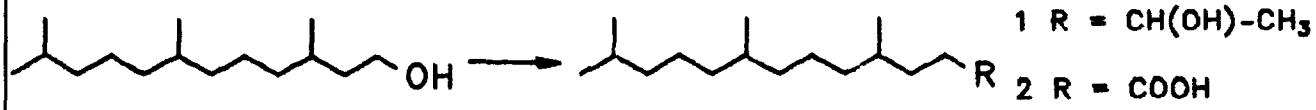
BioMed. Chem. **1993**, *1*, 399

Synthesis of Racemic 6,10,14-Trimethylpentadecan-2-ol, a Pheromone of Rice Moth and 5,9,13-Trimethyltetradecanoic Acid, a Component of Marine Sponge from a Common Intermediate

Sneha S. Rane, M. S. Chadha and V. R. Mamdapur
Bioorganic Division, Bhabha Atomic Research Centre, Bombay 400085, India

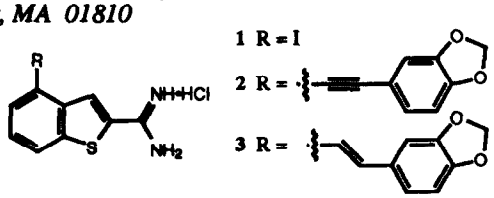


BioMed. Chem. **1993**, *1*, 403

The Synthesis of Three 4-Substituted Benzo[b]thiophene-2-carboxamidines as Potent and Selective Inhibitors of Urokinase

A. J. Bridges, A. Lee, C. E. Schwartz, M. J. Towle, and B. A. Littlefield
Eisai Research Institute, 4 Corporate Drive, Andover, MA 01810

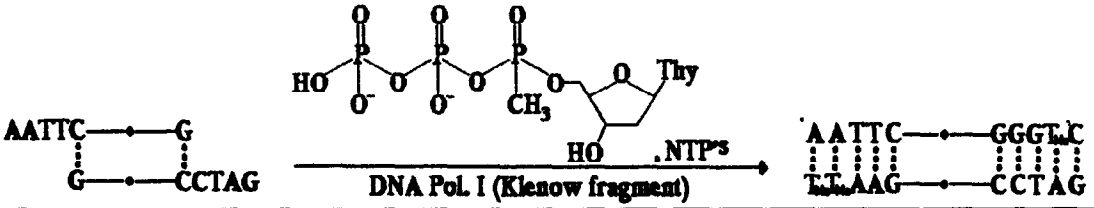
The efficient syntheses of the novel 4-substituted benzo[b]thiophene-2-carboxamidines **1-3** are described. These compounds have IC_{50} values of 320, 133, and 70 nM, respectively, for inhibition of the plasminogen activator urokinase.



BioMed. Chem. **1993**, *1*, 411

COMPLETE TEMPLATE–DIRECTED ENZYMATIC SYNTHESIS OF A POTENTIAL ANTISENSE DNA CONTAINING 42 METHYLPHOSPHONODIESTER BONDS.

M. A. Dineva, S. Chakurov[1], E.K. Bratovanova, I. Devedjiev[2] and D.D. Petkov*.
Lab. Biocatalysis, Institute of Organic Chemistry, Bulgarian Academy of Sciences, 1113 Sofia, BULGARIA.

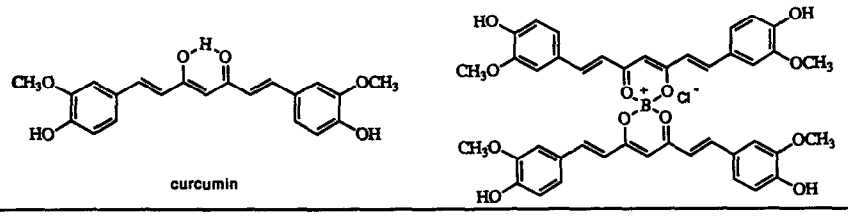


BioMed. Chem. **1993**, *1*, 415

Inhibition of the HIV-1 and HIV-2 Proteases by Curcumin and Curcumin Boron Complexes

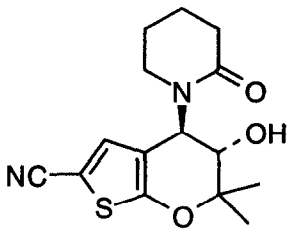
Zhihua Sui, Rafael Salto, Jia Li, Charles Craik and Paul R. Ortiz de Montellano*
Department of Pharmaceutical Chemistry, School of Pharmacy, University of California, San Francisco, CA 94143-0446, U.S.A.

Boron complexes of curcumin cause time-dependent inactivation of the HIV-1 and HIV-2 proteases.



BioMed. Chem. **1993,** *1,* 423

NOVEL THIENO[2,3-*b*]- AND [3,4-*b*]PYRANS AS POTASSIUM CHANNEL OPENERS. THIOPHENE SYSTEMS. 17. Jeffery B. Press, James J. McNally*, Pauline J. Sanfilippo, Michael F. Addo, Deborah Loughney, Edward Giardino, Lawrence B. Katz, Robert Falotico and Barbara J. Haertlein, *The R.W. Johnson Pharmaceutical Research Institute, Welsh and McKean Roads, Spring House, PA 19477*



30

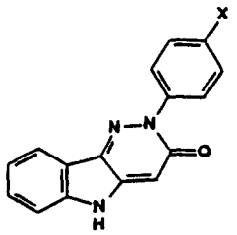
Thiophene isomers of RWJ 26629 (**2a**) are synthesized and evaluated for antihypertensive activity. While the [3,4-*b*] series has diminished activity, the [2,3-*b*] series as exemplified by **30** is nearly as potent as the development lead **2a**. Comparison of electropotential maps of the three isomeric series shows subtle changes in the aromatic region of these molecules may play an important role in their overall biological effects.

BioMed. Chem. **1993,** *1,* 437

2-ARYL-2,5-DIHYDROPYRIDAZINO[4,3-b]INDOL-3(3H)-ONES: NOVEL RIGID PLANAR BENZODIAZEPINE RECEPTOR LIGANDS

F.Campagna *, A.Carotti *, G.Casini, F.Palluotto, G. Genchi # and G.B.De Sarro §
Dip.Farmacochimico University of Bari (Italy) #Dip.Scienze animali vegetali e dell'ambiente University of Molise Campobasso (Italy) §Dip. Medicina Sperimentale e Clinica, University of Reggio Calabria Catanzaro (Italy).

Abstract: Title compounds **5 a-d** were prepared and evaluated for their ability to inhibit radioligand binding to BZR, and to prevent sound and PTZ induced seizures in mice. Preliminary SAR, theoretical and modeling data are discussed in comparison with pyrazoloquinoline analogs **6**.



5a-d

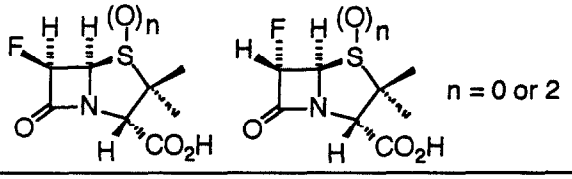
X: a = H; b = OCH_3; c = Cl; d=Br

BioMed. Chem. **1993,** *1,* 447

SYNTHESIS AND β-LACTAMASE INHIBITORY ACTIVITY OF 6-FLUOROPENICILLANIC ACIDS

Gerardo O. Danelon,[a] María Laborde,[a] Oreste A. Mascaretti,*[a] Silvana B. Boggio[b] and Oscar A. Roveri.*[b]
[a]Instituto de Química Orgánica de Síntesis (CONICET-UNR) and [b]Departamento de Química Biológica. Facultad de Ciencias Bioquímicas y Farmacéuticas. Casilla de Correo 991. 2000 Rosario. Argentina

This article describe the structure activity relationships in a serie of fluorinated penicillin sulfides and sulfones as inhibitors of the β-lactamase I from *Bacillus cereus.*



n = 0 or 2