Graphical Abstracts

Heterocycl. Commun. **8** (2002) 215-220

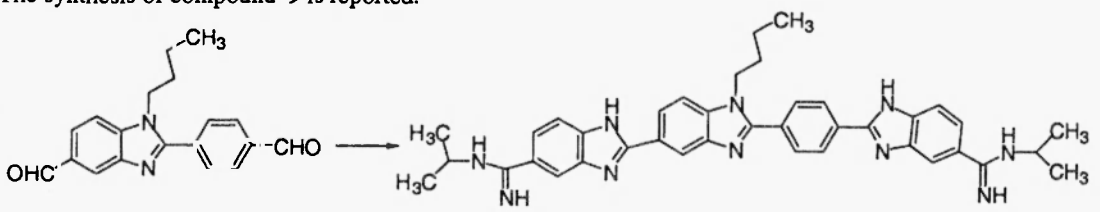
SYNTHESIS OF SOME NEW *N*-ISOPROPYLAMIDINOBIBENZIMIDAZOLES AS POTENTIAL TOPOISOMERASE INHIBITORS

Canan Kus,[a] David W. Boykin [b] and Hakan Göker [a b*]

[a]*Department of Pharmaceutical Chemistry, University of Ankara, Faculty of Pharmacy, Ankara, Turkey,*

[b]*Department of Chemistry, Georgia State University, Atlanta, GA,30303, USA*

The synthesis of compound **9** is reported.



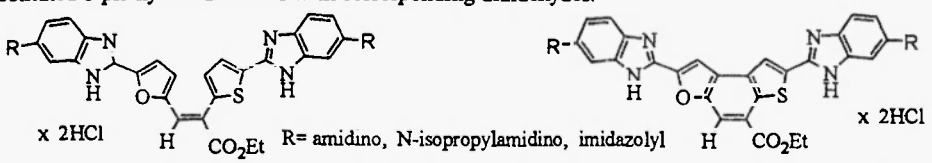
8 **9**

Heterocycl. Commun. **8** (2002) 221-226

NEW AMIDINO SUBSTITUTED BENZIMIDAZOLYL FURYL-THIENYL ACRYLATES AND BENZOTHIENOFURANS; SYNTHESIS AND PHOTOCHEMICAL SYNTHESIS

Kristina Starčevic[1] Dawid W. Boykin[2] and Grace Karminski-Zamola[1*], [1]Department of Organic Chemistry, Faculty of Chemical Engineering and Technology, University of Zagreb and [2]Department of Chemistry and Center for Biotechnology and Drug Design, Georgia State University, Atlanta, Georgia 30303-3083, USA

Abstract New amidino-substituted benzimidazolyl furyl-thienyl acrylates and benzothienofurans were prepared by condensation of amidino substituted o-phenylene diamines with corresponding dialdehydes.



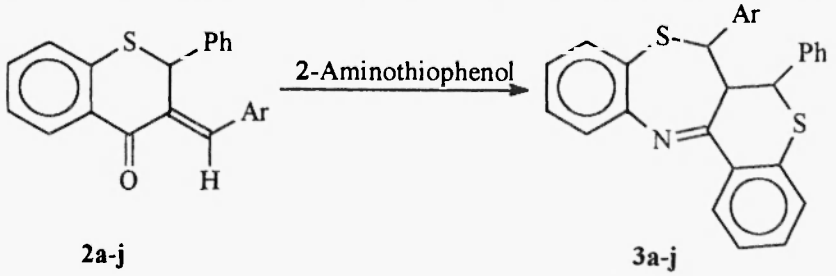
x 2HCl R= amidino, N-isopropylamidino, imidazolyl x 2HCl

Heterocycl. Commun. **8** (2002) 227-232

OXAZEPINES AND THIAZEPINES 39 SYNTHESIS OF TETRACYCLIC 1,5-BENZOTHIAZEPINES BY THE REACTION OF (*Z*)-3-ARYLIDENE-1-THIOFLAVANONES WITH 2-AMINOTHIOPHENOL

Albert Lévai

Department of Organic Chemistry, University of Debrecen, H-4010 Debrecen, Hungary



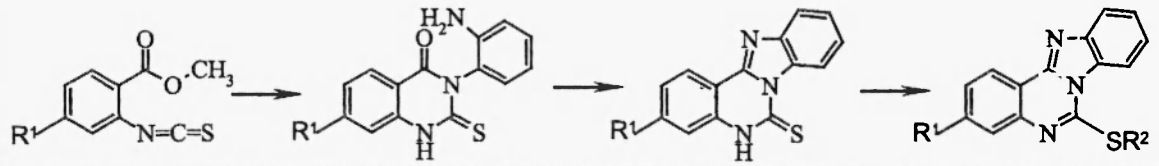
2a-j **3a-j**

SYNTHESIS OF BENZIMIDAZO[1,2-*c*]-QUINAZOLINE-6(5*H*)-THIONES

Heterocycl. Commun. 8 (2002) 233-236

Alexandre Ivachtchenko[a]*, Sergiy Kovalenko[b] and Oleksandr Drushlyak[b]

[a]*ChemicalDiversity Labs, Inc., San Diego, CA, USA*
[b]*Institute of Combinatorial Organic Chemistry, Kharkiv, Ukraine*

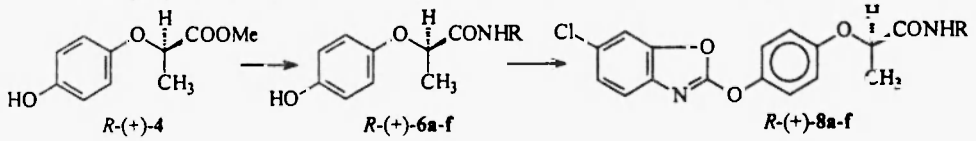


SYNTHESIS OF OPTICALLY ACTIVE 2-[4-(6-CHLORO-2-BENZOXAZOLYLOXY)PHENOXY] PROPIONAMIDE DERIVATIVES OF POTENTIAL HERBICIDE ACTIVITY

Heterocycl. Commun. 8 (2002) 237-242

József Köver,[a] László Szilágyi,[a] Sándor Antus,[a] József Tompa,[b] Tamas Gunda[c]
[a]Department of Organic Chemistry, University of Debrecen, P.O.B. 20, H-4010 Debrecen, Hungary
[b]ICN Hungary Ltd., P.O.B. 1, H-4440 Tiszavasvári, Hungary
[c]Research Group of Antibiotics of the Hungarian Academy of Sciences, P.O.B. 70, H-4010 Debrecen, Hungary

An efficient two steps synthesis of (R)-(+)-**8a-f** propionamides has been developed starting (R)-(+)-**4**.



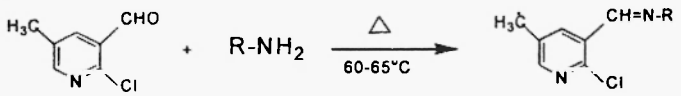
R-(+)-**4** *R*-(+)-**6a-f** *R*-(+)-**8a-f**

A Simple and convenient preparation of 2-Chloro-5-methylpyridine-3-carbaldehyde imines.

Heterocycl. Commun. 8 (2002) 243-248

B.Gangadasu, B.China Raju* and V.Jayathirtha Rao*

The new heterocyclic 2-Chloro-5-methylpyridine-3-carbaldehyde imines were prepared in very good yields.



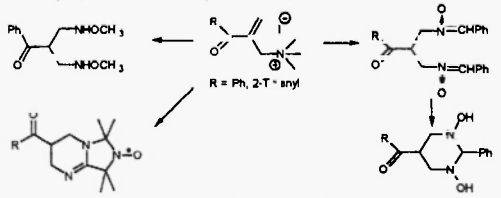
1 **2a-o** **3a-o**

SYNTHESIS OF PYRIMIDINE AND 1,3-BISHYDROXYLAMINE DERIVATIVES FROM ENONE MANNICH BASE METHIODIDES

Heterocycl. Commun. 8 (2002) 249-254

Vadim K. Khlestkin*, Alexsei Ya. Tikhonov
Novosibirsk Institute of Organic Chemistry, prosp. Lavrent'eva, 9, Novosibirsk, 630090, RUSSIA

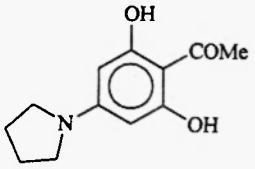
Reaction of the bis(aminomethylated) alkylaromatic ketones with methyl iodide gave the enone Mannich base methiodides which are reactive intermediates in reactions with nucleophiles.



Heterocycl. Commun. 8 (2002) 255-258

2,6-Dihydroxy-4-pyrrolidinyl-acetophenone and its complex with pyrrolidine

Kálmán Harsányi*[b] and Csaba Szántay Jr[c]
Gedeon Richter Ltd., [b]Synthetic Research Laboratory No. II,
[c]Spectroscopic Research Center, P.O.Box 27, H-1475 Budapest, Hungary.

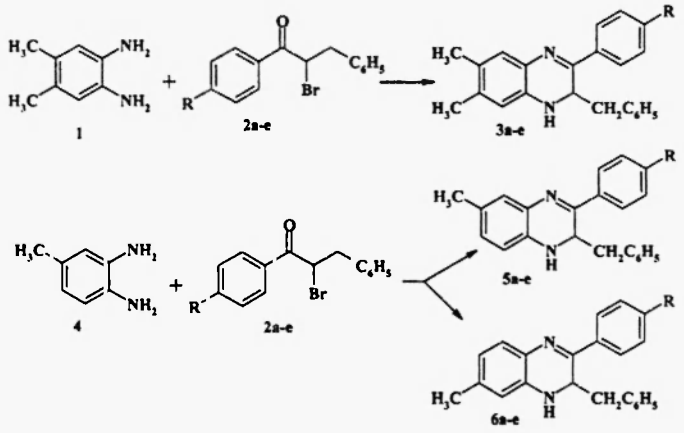


The synthesis of 2,6-dihydroxy-4-pyrrolidinyl-acetophenone has been simplified and improved; it tends to form a 1:1 molar complex with pyrrolidine; it could be utilized to produce a novel spiro derivative.

Heterocycl. Commun. 8 (2002) 259-264

SYNTHESIS OF 3-ARYL-2-BENZYL-1,2-DIHYDROQUINOXALINES THROUGH THE REACTION BETWEEN 1,2-DIAMINO-4,5-DIMETHYLBENZENE AND 1,2-DIAMINO-4-METHYLBENZENE WITH 2-BROMO-1,3-DIARYL-1-PROPANONES

Braulio Insuasty*, Fernando Fernandez, Jairo Quiroga, Rodolfo Moreno, Rodrigo Abonia, Grupo de Investigación de Compuestos Heterocíclicos, Department of Chemistry, Universidad del Valle, A.A. 25360, Cali, Colombia

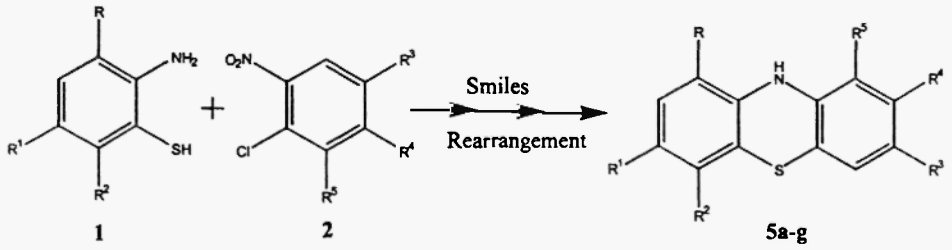


Heterocycl. Commun. 8 (2002) 265-270

SYNTHESIS OF 6-CHLORO-9-METHYL-/7-METHOXYPHENOTHIAZINES VIA SMILES REARRANGEMENT

Kalpana Gupta, Rajni Gupta, R.R. Gupta and M. Kumar*
Department of Chemistry, University of Rajasthan, Jaipur – 302004, India

Synthesis of 6-chloro-9-methyl-/7-methoxyphenothiazines is reported via Smiles rearrangement.



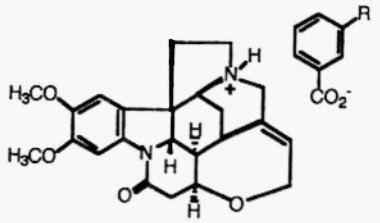
Heterocycl. Commun. 8 (2002) 271-274

Molecular Recognition and Resolution of Constitutional Isomer of Benzoic Acids by Brucine

Tatsuo Oshikawa*[a] Saitip Pochamroen,[a] Nami Takai, Naoki Ide,[a] Takayuki Takemoto,[a] and Mitsuji Yamashita[b]

a)Department of Chemistry and Biochemistry, Numazu College of Technology, Ooka 3600, Numazu 410-8501, Japan, b)Department of Materials Chemistry, Faculty of Engineering, Shizuoka University, Hamamatsu 432-8561, Japan

Brucine molecular recognized only *m*-substituted benzoic acid derivatives among the constitutional isomers. Crystallin clathrates were afforded as single crystals from the reaction solutions.



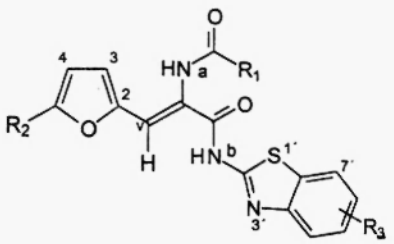
Heterocycl. Commun. 8 (2002) 275-280

SYNTHESIS OF SOME 5-NITRO-2-FURFURYLIDENE DERIVATIVES AND THEIR ANTIBACTERIAL AND ANTIFUNGAL ACTIVITIES

Jaime Charris[a*], Melina Monasterios[b], Jose Domínguez[a], Wilson Infante[c], and Norma De Castro[c].

Laboratorio de Síntesis Orgánica[a], Unidad de Química Medicinal[b], Cátedra de Microbiología[c] Facultad de Farmacia, Universidad Central de Venezuela, Aptdo. 47206, Los Chaguaramos 1041-A, Caracas, Venezuela.

A number of new 5-nitro-2-furfurylidene derivatives **9a-k** were synthesized by the reaction of 2-methyl-4-(5-nitro-2-furfurylmethyliden)-Δ^2-oxazolin-5-one **6** or 2-phenyl-4-(2-furfurylmethyliden)-Δ^2-oxazolin-5-one **7** with appropriate 2-aminobenzothiazole. All compounds studied in this work were screened for their *in vitro* antimicrobial and antifungal activities against the standard strains: *Bacillus subtilis, Staphylococcus aureus, Escherichia coli, Pseudomonas aeruginosa, Salmonella typhimurium, and the* yeast *Candida albicans.*

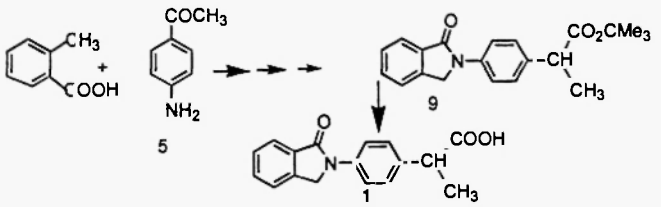


Heterocycl. Commun. 8 (2002) 281-286

A Facile Preparation of Phthalimides And A New Approach ToThe Synthesis of Indoprofen Via Carbonylation

Chalasani S.N.Prasad, Ravi.Varala and Srinivas R.Adapa

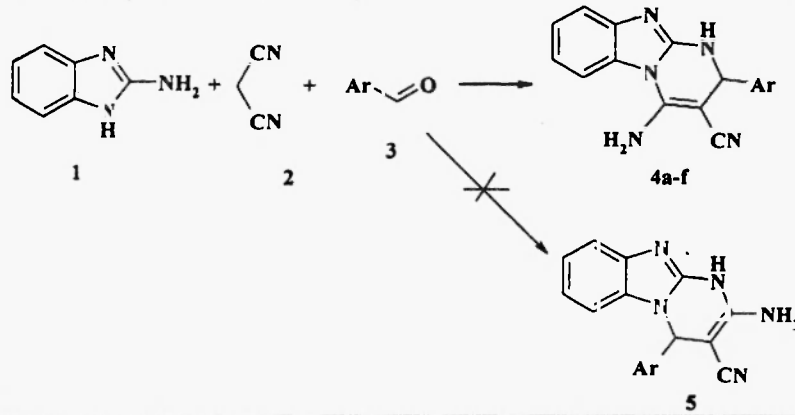
Inorganic Division,Indian Institute of Chemical Technology, Hyderabad-500 007, India



Heterocycl. Commun. 8 (2002) 287-292

One-step Multicomponent Synthesis of 4-Amino-2-aryl-3-cyano-1,2-dihydropyrimido[1,2-a]benzimidazoles

Braulio Insuasty[1], Angela Salcedo[1], Rodrigo Abonía[1], Jairo Quiroga[1*], Manuel Nogueras[2] and Adolfo Sánchez[2]
[1]Grupo de Investigación de Compuestos Heterocíclicos, Departamento de Química, Universidad del Valle, A. A. 25360, Cali – Colombia. [2]Department of Inorganic and Organic Chemistry, Universidad de Jaén, 23071 Jaén, Spain.



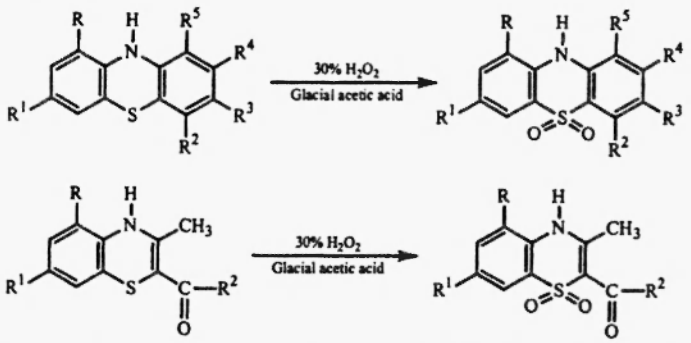
1 2 3 4a-f 5

Heterocycl. Commun. 8 (2002) 293-298

SYNTHESIS OF 10H-PHENOTHIAZINE AND 4H-1,4-BENZOTHIAZINE SULFONES

Leby Thomas, Archana Gupta and Vandana Gupta*
Department of Chemistry, University of Rajasthan, Jaipur-302004 (India)

Synthesis of title compounds is reported by the oxidation of 10H-phenothiazines and 4H-1,4-benzothiazines.



Heterocycl. Commun. 8 (2002) 299-304

Microwave-Assisted Reaction 31. One Pot Synthesis of Pyrido-[1,2-a]-6,7,8,9Tetrahydroquinazolines and Pyrimido[1,2-a]-2,3-Dihydro-5-Azaindenes

Magda A. Barsy[a]. Fawi M. Abdel-Latif[a]. Amal Mohamed Aref[a] and Kamal Usef Sadek[b]
[a)] Chemistry Department, Faculty of Science, South Valley University, Aswan, A. R. Egypt.
[b)] Chemistry Department, Faculty of Science, Minia university 61519 Minia A. R. Egypt.