

Graphical Abstracts

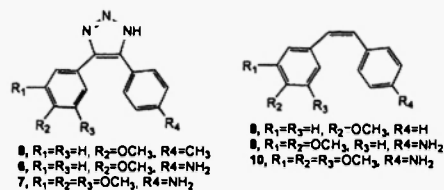
Heterocycl. Commun. 11 (2005) 117-120

SYNTHESIS AND BIOLOGICAL EVALUATION OF CIS-COMBRETASTATIN ANALOGS AND THEIR NOVEL 1,2,3-TRIAZOLE DERIVATIVES

Hari N. Pati, Martha Wicks, Herman L. Holt, Jr.,
Regan LeBlanc, Paul Weisbruch, Lori Forrest,
Moses Lee*

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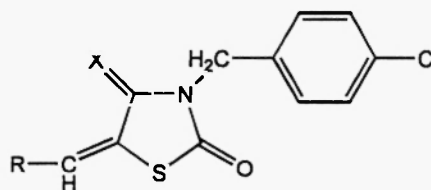
Heterocycl. Commun. 11 (2005) 121-128

SYNTHESIS AND ANTI-INFLAMMATORY ACTIVITY OF NEW THIAZOLIDINE-2,4-DIONES, 4-THIOXOTHIAZOLIDINONES AND 2-THIOXOIMIDAZOLIDINONES

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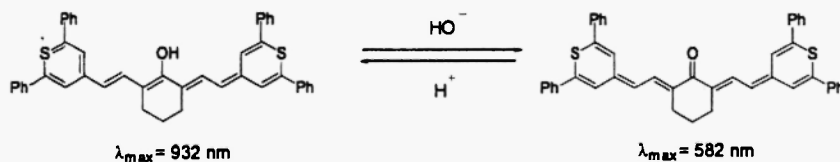


X = O, S

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NOVEL SYNTHETIC ROUTE TO pH-SENSITIVE 2,6-BIS(SUBSTITUTED ETHYLIDENE)CYCLOHEXANONE/HYDROXYCYANINE DYES THAT ABSORB IN THE VISIBLE/NEAR-INFRARED REGIONS

L. Strekowski,* J. C. Mason, M. Say, H. Lee, R. Gupta and M. Hojjat
Department of Chemistry, Georgia State University, Atlanta, GA 30303, USA



SYNTHESIS OF SOME NEW 6-ARYL-2-(3-OXO-1,4-BENZOXAZIN-6-YL)PYRIDINES.

P. S. N. Reddy and Pragati Reddy

Department of Chemistry, Osmania University, Hyderabad-500 007, India.

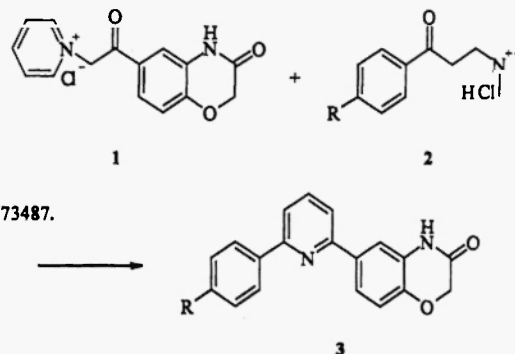
E-mail: psnreddy@yahoo.com

and

G. Jagath Reddy and K. Srinivasa Rao

R & D Laboratories, Dr. Jagath Reddy's Heterocyclics, 81, S.V.Co-op Industrial Estate, Balanagar, Hyderabad - 500 037, India. e-mail-jagathreddy@usa.net; Fax # 91-40-23773487.

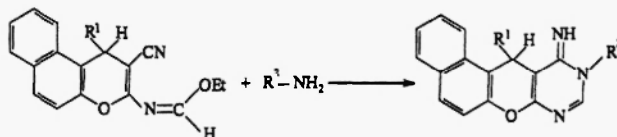
A series of some new 6-aryl-2-(3-oxo-1,4-benzoxazin-6-yl)pyridines (3a-g) have been accepted

**ACTION OF PRIMARY AMINES AND HYDROXYLAMINE ON ETHOXYMETHYLENEMINONAPHTOPYRANE: SYNTHESIS OF NEW NAPHTOPYRANO[2,3-D]PYRIMIDINE DERIVATIVES**

Mehdi Messaad, Fakher Chabchoub and Mansour Salem

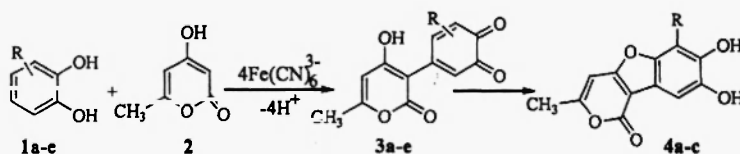
Laboratoire de Chimie Appliquée : Hétérocycles, Corps Gras et Polymères, Faculté des Sciences de Sfax, 3038 Sfax, Tunisie

The reaction of the naphtopyrans with triethylorthoformate and then with primary amines and hydroxylamine, leads to new naphtopyrano [2, 3-d] pyrimidines 3 and 4, whose structures were confirmed by IR and NMR spectroscopy.

**OXIDATIVE COUPLING OF IN-SITU GENERATED o-BENZOQUINONES WITH 4-HYDROXY-6-METHYL-2-PYRONE**

Davood Habibi, Davood Nematollahi,* Abdolhamid Alizadeh and Mahdi Hesari

Department of Chemistry, Faculty of Sciences, University of Bu-Ali Sina, Hamadan, Iran.



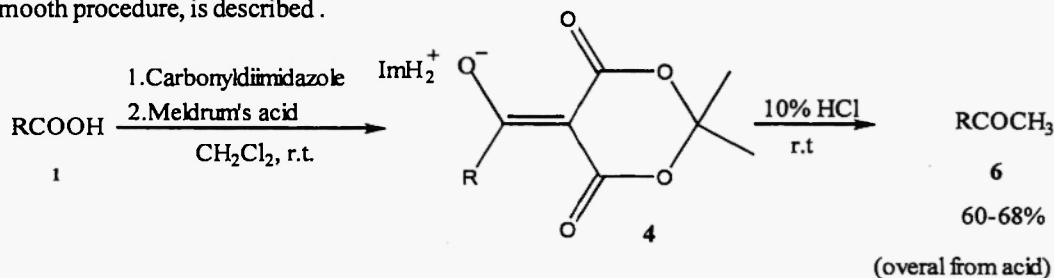
R = H, 1a, 3a, 4a
 R = Me, (at C-3) 1b, 3b, 4b
 R = OMe, (at C-3) 1c, 3c, 4c
 R = COOH, (at C-4) 1d, 3d, 4d
 R = tert-Bu (at C-4) 1e, 3e

ONE-POT CONVERSION OF A REPRESENTATIVE SERIES OF CARBOXYLIC ACIDS TO THE CORRESPONDING METHYL KETONES

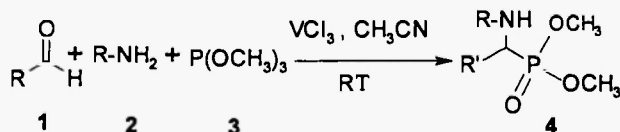
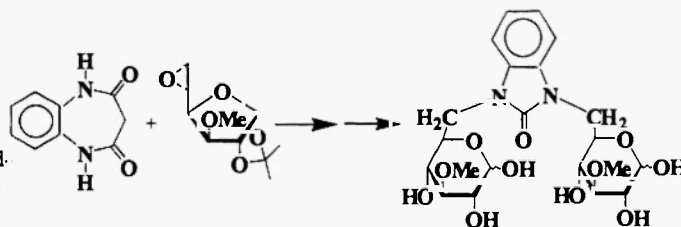
Stylianos Hamilakis and Athanase Tsolomitis*

The Laboratory of Organic Chemistry, The School of Chemical Engineering,
The National Technical University of Athens, Athens 157 80, Greece

The conversion of carboxylic acids via the corresponding acyl Meldrum's acids to methyl ketones by a simple and smooth procedure, is described .

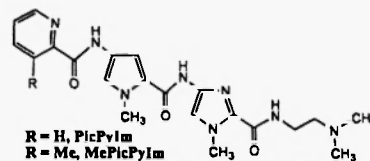
**VC₃ CATALYZED EFFICIENT ONE-POT SYNTHESIS OF α -AMINO PHOSPHONATES**Y. Thirupathi Reddy, P. Narsimha Reddy, B. Sunil Kumar, N. Sreenivasulu and
B. Rajitha*

Department of Chemistry, National Institute of Technology, Warangal, India.

VC₃ is a highly efficient catalyst for the one-pot synthesis of α -amino phosphonates.**SYNTHESIS OF N,N' -DIGLUCOSYLATED BENZIMIDAZOL-2-ONE VIA AN UNEXPECTED REARRANGEMENT OF BENZODIAZEPINE DERIVATIVE**Brahim Lakhri, Mohamed Massoui, El Mokhtar Essassi, Vincent Lequart,
Nicolas Joly, Gérard Goethals, Patrick Martin** Laboratoire de la Barrière Hémato Encéphalique,
Antenne de Béthune, IUT de Béthune, Université d'Artois,
France.Reaction of 1,5-benzodiazepin-2,4-dione with 3-O-substituted-5,6-anhydro-1,2-isopropylidene- α -D-glucofuranose gave the unexpected N,N' -di-glucofuranosyl benzimidazol-2-one by a novel rearrangement and ring closure reaction. A mechanism is proposed.

NOVEL PICOLINIC ACID-CONTAINING PYRROLE-IMIDAZOLE POLYAMIDES: SYNTHESIS AND T-G MISMATCHED BASE PAIR RECOGNITION

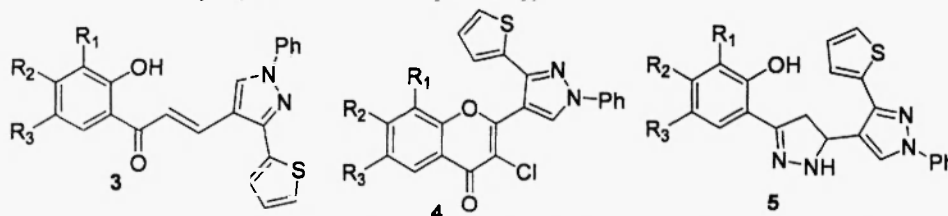
Peter B. Uthe, Andrew M. Staples, Mark Turlington,
Justin B. Jones, Kevin N. Blackmon, Suzanna L. Bailey,
Karen L. Buchmueller, Moses Lee*
Department of Chemistry, Furman University, Greenville, SC 29613



SYNTHESIS, CHARACTERIZATION OF SOME 1-(2-HYDROXY-PHENYL)-3-(1-PHENYL-3-THIOPHEN-2-YL-1H-PYRAZOL-4-YL)-PROPENONE, 3-CHLORO-2-(1-PHENYL-3-THIOPHEN-2-YL-1H-PYRAZOL-4-YL)-CHROMON-4-ONE AND 2-(1'-PHENYL-3'-THIOPHEN-2-YL-3,4-DIHYDRO-2H,1H'-[3,4]BIPYRAZOL-5-YL)-PHENOL

V.B. Halnor, N.S. Joshi, B.K. Karale and C.H. Gill*, P.G. Dept. of chemistry, S.S.G.M. College, Kopargaon, Dist. Ahmednagar

Base catalyzed condensation of 1 with 2 gives compound 3 [1-(2-hydroxy-phenyl)-3-(1-phenyl-3-thiophen-2-yl-1H-pyrazol-4-yl)-propenone]. 3 on oxidative cyclization with DMSO-CuCl₂ gives 3-chloro-2-(1-phenyl-3-thiophen-2-yl-1H-pyrazol-4-yl)-chromon-4-one 4. 3 on condensation with hydrazine hydrate gives 2-(1'-phenyl-3'-thiophen-2-yl-3,4-dihydro-2H,1H'-[3,4]bipyrazol-5-yl)-phenol 5. The products 3, 4 and 5 were characterized by IR, ¹H NMR and mass spectroscopy.

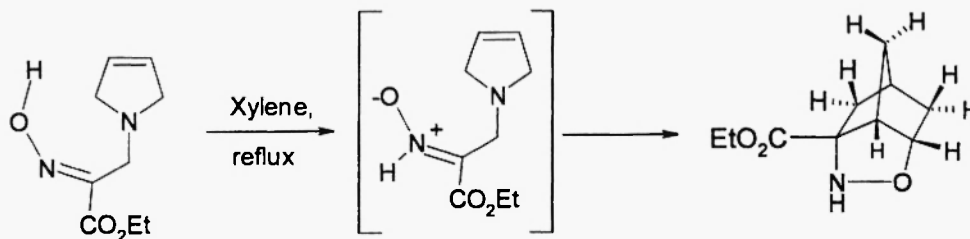
SYNTHESIS OF SOME NOVEL TRICYCLIC α -AMINOACID ESTERS AND POTENTIAL BIOACTIVE COMPOUNDS VIA 1,2-PROTOTROPY AND 1,3-APT CASCADE REACTIONS

H. Ali Dondas** and Naciye Yaktubay Dondas^b

a. Mersin University, Faculty of Pharmacy, Department of Chemistry, Mersin, 33342, Turkey

b. Çukurova University, Faculty of Medical, Department of Pharmacology, 01330, Adana-Turkey

Some novel cyclic α -aminoacid esters and potential bioactive compounds were prepared via thermal 1,2-prototropy- and 1,3-APT oxime nitron-1,3-dipolar cycloaddition cascades reactions. This substrate allows the influence of the new stereocentres on the cascade to be assessed with respect to the configuration of the nitron that is generated and the facial selectivity of the subsequent cycloaddition.

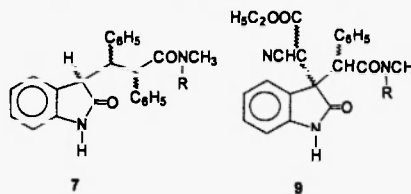


1,4-ADDITION OF N,N-DIALKYLPHENYL ACETAMIDES TO METHYLENE SUBSTITUTED 1,3-DIHYDRO-3-METHYLENE-2H-INDOL-2-ONES

Heterocycl. Commun. 11 (2005) 181-188

Tzv. Cholakova, A. Vasilev, N. Ninjo, A. Dobrev*
University of Sofia, Faculty of Chemistry,
boul. J. Bourchier, № 1, Sofia 1126, Bulgaria
S. Simova

Bulg. Acad. of Sciences, Inst. of Org. Chem., 1113 Sofia, Bulgaria



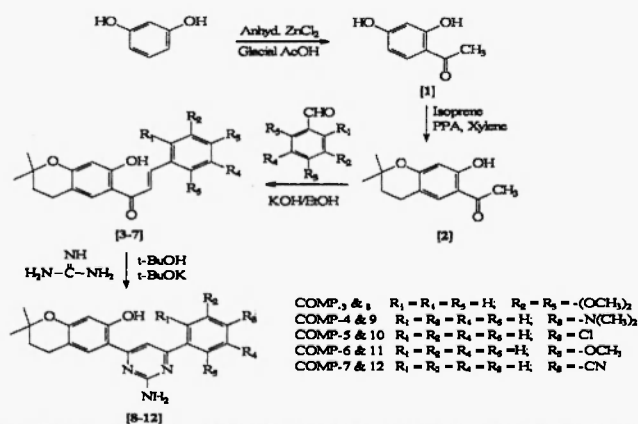
Two 3-methylene-2H-indol-2-ones substituted in the methylene group by either a phenyl or two electron withdrawing groups react with the lithium enolates of N,N-disubstituted phenylacetamides and 2H-indol-2-one giving the corresponding products of conjugate 1,4-addition – the 1,3-dihydro-indol-2-ones 7 and 9.

Heterocycl. Commun. 11 (2005) 189-194

SYNTHESIS AND CHARACTERISATION OF NEW CHROMANO PYRIMIDINES AND STUDY OF ANTIMICROBIAL ACTIVITY

**Y.L.N.Murthy, *Rani Nanda, *P.Ellaiah and *R.Bhavani Devi.

SCHEME



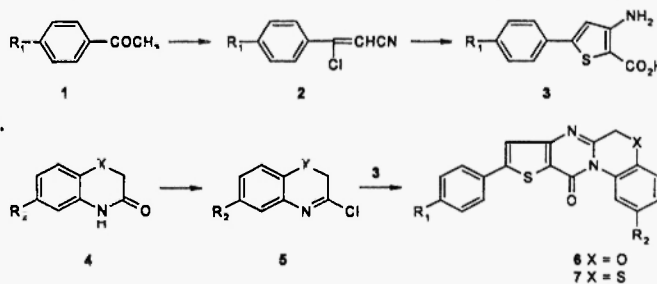
SYNTHESIS OF 9-ARYL[3',2':4,3]PYRIMIDO

Heterocycl. Commun. 11 (2005) 195-198

[2,1-C][1,4] BENZOXA/THIAZINES UNDER MICROWAVE IRRADIATION CONDITIONS

G. Jagath Reddy * and K. Srinivasa Rao
R & D Laboratories, Dr. Jagath Reddy's Heterocyclics,
81, S.V.Co-op Industrial Estate, Balanagar, Hyderabad -
500 037, India. E-mail: jagathreddy@usa.net; Fax # 91-40-23773487.
and

Md. Khalilullah, D. Latha and C. Thirupathiah
Department of Chemistry, Jawaharlal Nehru Technological
University, Hyderabad-500 072, India.



A series of new 9-Arylthieno[3',2':4,3]pyrimido[2,1-c][1,4]benzoxazines (6a-f) and benzothiazines [7a-c] have been synthesized under microwave irradiation conditions.