THE USE OF ANILINODIHYDROFURANS IN THE SYNTHESIS OF NOVEL HETEROCYCLIC COMPOUNDS

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Abstract

Alkyl 4-oxo-2-phenylamino-4,5-dihydrofuran-3-carboxylates were used for the preparation of alkyl 5-amino-7-aryl-2-{[aryl(hydroxy) methyl](phenyl) amino}-4,6-dicyano-1-benzofuran-3-carboxylates, 4-oxo-2-phenylamino-N-(p-tolyl)-4,5-dihydrofuran-3-carboxamide, and ethyl 4-chloro-5-formyl-2-(phenylamino)furan-3-carboxylate. The latter was used for the synthesis of ethyl 4-chloro-5-(hydrazinylidenemethyl)-2-(phenylamino)furan-3-carboxylate and diethyl 5,5'-(hydrazine-1,2-diylidenemethylylidene)bis[4-chloro-2-(phenylamino)furan-3-carboxylate].

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Synthesis of Novel 1,2,3,4-Tetrahydrocarbazole Derivatives of Biological Interest

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Abstract

2-Cyano-N-(tetrahydrocarbazole)acetamide (1) was utilized for the synthesis of several new arylazocarbazole derivatives (2a-e). Compound (1) reacted with phenyl isothiocyanate to yield the corresponding non-isolable intermediate (3), which gave, upon treatment with dilute hydrochloric acid, thiocarbamoyl derivative (4). Compound (3) reacted with chloroacetone, chloroacetic acid, chloroacetyl chloride, ethyl bromoacetate, and phenacyl bromide to afford thiazolone derivatives (6), (8), and (10), respectively. Compound (1) was heated in the presence of pyridine and/or hydrazine hydrate and/or isatine to give the corresponding tetrahydrocarbazole derivatives (13), (14), and (18), respectively. Supplemental materials are available for this article. Go to the publisher's online edition of Phosphorus, Sulfur, and Silicon and the Related Elements to view the free supplemental file.

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Author(s): AUCLAIR C
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Author(s): Bondock, Samir; Khalifa, Wesam; Fadda, Ahmed A.
Source: EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY Volume: 42 Issue: 7 Pages: 948-954 DOI: 10.1016/j.ejmech.2006.12.025 Published: JUL 2007
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Author(s): DING, L; CASAS, C; ETEMADMOGHADAM, G; et al.
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Author(s): DUG B
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Author(s): El-Shafei, Ahmed; Fadda, A. A.; Khalil, A. M.; et al.
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Author(s): Fadda, Ahmed A.; Abdel-Latif, E.; El-Mekawy, Rasha E.
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Author(s): Hudkins, RL; Diebold, JL; Angeles, TS; et al.

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Author(s): MEUNIER, G; DEMONTAUZON, D; BERNADOU, J; et al.
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Author(s): RAMIREZ, F; KIRBY, AF
Source: JOURNAL OF THE AMERICAN CHEMICAL SOCIETY Volume: 76 Issue: 4 Pages: 1037-1044 DOI: 10.1021/ja01633a034 Published: 1954

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Author(s): SLAETT J
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THE USE OF 3-AMINO-4,6-DIMETHYLPYRAZOLO[3,4-b]PYRIDINE IN THE SYNTHESIS OF NOVEL HETEROCYCLES OF PHARMACEUTICAL INTEREST

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Abstract

3-Amino-4,6-dimethylpyrazolo[3,4-b]pyridine was used for the preparation of some novel heterocycles of pharmaceutical interest. The starting material reacted with 2-cyano-3,3-bis(methylthio)acrylate, chloroacetyl chloride, phenyl isothiocyanate, carbon disulfide, and aromatic aldehydes to give the novel heterocycles. The structures of the hitherto unknown ring systems have been confirmed by analytical and spectral methods.

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KeyWords Plus: IMINES

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Synthesis of new purine, pteridine, and other pyrimidine derivatives

Abdel-Latif, E (Abdel-Latif, E.); Mustafa, HM (Mustafa, H. M.); Etman, HA (Etman, H. A.); Fadda, AA (Fadda, A. A.)

Abstract

The reaction of malononitrile dimer with phenyl isothiocyanate gave (6-amino-1-phenyl-2-thioxo1,2,3,4-tetrahydropyrimidin-4-ylidene)malononitrile which was then used as starting material in the synthesis of pharmacologically important fused pyrimidine derivatives, such as 4-dicyanomethylidene-1.5-diphenyl-2thioxo-1,2,3,4-tetrahydropyrrolo[2,3-d]pyrimidine, 6-cyano-4-dicyanomethylidene-7-methylsulfanyl-5-oxo-lphenyl-2-thioxo-1,2,3,4,5,8-hexahydropyrido[2,3-d]pyrimidine, 6-dicyanomethylidene-3-phenyl-2-thioxo1,2,3,6-tetrahydro-9H-purine, and 6-substituted 4-dicyanomethylidene-7-oxo-1-phenyl-2-thioxo-1,2,3,4,7,8-hexahydropteridines.

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Thiazolidin-5-ones: Synthesis and reactions

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Fekry, A (Fekry, A)

Abstract

Thiazolidin-5-ones and their derivatives have been long used as precursors for the synthesis of biologically active molecules. The general methods of preparations of thiazolidinones have been mentioned. The reactions of the title compounds are subdivided into groups that cover reactions to yield monoheterocycles.

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1.Title: 7386883 Patent Number: JA 7386883

Inventor/Assignee: AKATSU M

2. Title: ACYLATION REACTIONS OF N-HYDROXYMETHYLTHIOBENZAMIDE (View record in MEDLINE)

Author(s): BOHME, H; MATUSCH, R; TIPPMANN, E

Source: ARCHIV DER PHARMAZIE Volume: 309 Issue: 9 Pages: 761-764 DOI: 10.1002/ardp.19763090914 Published: 1976

3. Title: [not available]Author(s): BONNEMAISON L

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4. Title: SOME ANALOGS OF 3-BENZYLRHODANINE

Author(s): BRADSHER, CK; BROWN, FC; SINCLAIR, EF

Source: JOURNAL OF THE AMERICAN CHEMICAL SOCIETY Volume: 78 Issue: 23 Pages: 6189-6192 DOI: 10.1021/ja01604a066 Published: 1956

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Author(s): BROWN, FC

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Author(s): Bukowski, L; Janowiec, M; Zwolska-Kwiek, Z; et al.

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Author(s): COOK, AH; LEVY, AL

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NITRILES

Author(s): COOK, AH; COX, SF

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Author(s): DANILA, G

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Author(s): DAVIS, AC; LEVY, AL

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Author(s): DENKEWAL.RG; SCHWAM, H; STRACHAN, RG; et al.

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Author(s): DEWEY, RS; SCHOENEW.EF; JOSHUA, H; et al.

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Author(s): El-Desoky, S. I.; Bondock, H. A.; Etman, A. A.; et al; Metwally, M. A.

Source: Sulfur Lett Volume: 26 Pages: 127 Published: 2003

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Author(s): El-Desoky, S. I.; Etman, H. A.; Bondock, S. B.; et al; Fadda, A. A.; Metwally, M. A.

Source: Sulfur Lett Volume: 25 Pages: 199 DOI: 10.1080/02786110214496 Published: 2002

20. Title: [not available]Author(s): ELMORE DT

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Author(s): MCVEIGH, I; HANLEY, WS; TATE, CE; et al.

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Author(s): GANTE, J; KIRCHLECHNER, R

Source: CHEMIKER-ZEITUNG Volume: 105 Issue: 9 Pages: 265-266 Published: 1981

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Author(s): GASHA, M; YAMAGUCH.K; SAKURAI, Y; et al.

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Author(s): HAHNKAMM, V; GATTOW, G

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Author(s): HARRIS, CR; TURNBULL, SA

Source: CANADIAN ENTOMOLOGIST Volume: 109 Issue: 8 Pages: 1109-1114 Published: 1977

26. Title: 06306044 Patent Number: JP 06306044

Inventor/Assignee: HIRAMITSU T

27. Title: ANALOGS OF NUCLEOSIDES .18. SYNTHETIC USE OF THE RIBOSYL DERIVATIVES OF 2,4-THIAZOLIDINEDIONE AND 2,5-THIAZOLIDINEDIONE

Author(s): HREBABECKY, H; TOCIK, Z; BERANEK, J

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Author(s): JEFFREYS, RA; KNOTT, EB

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Author(s): KRICHELD.HR

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Author(s): KRICHELD.HR

Source: CHEMISCHE BERICHTE-RECUEIL Volume: 104 Issue: 10 Pages: 3156-& DOI: 10.1002/cber.19711041021 Published: 1971

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Inventor/Assignee: MATSUI S

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Author(s): Metwally, MA; Keshk, EM; Fekry, A; et al.

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35. Title: [not available]Author(s): METWALLY MA

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Author(s): Metwally, MA; Keshk, EM; Fekry, A; et al.

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Author(s): Mohamed, NR

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Author(s): MOHAREB, RM; SHERIF, SM

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Author(s): MOHAREB, RM; SHERIF, SM; ABDELAAL, FAM; et al.

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Author(s): NEIDLEIN, R; HEGE, HG

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Author(s): OKAWARA, T; NAKAYAMA, K; FURUKAWA, M

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Author(s): PARMAR, SS; CHAUDHAR.A; GUPTA, TK; et al.

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Inventor/Assignee: POLLOCK JRA

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Author(s): RAMIREZ, F; TELEFUS, CD; PRASAD, VAV

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Author(s): SCHAUMANN, E; KAUSCH, E; GRABLEY, S; et al.

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Author(s): SCHAUMANN, E; GRABLEY, S; SEIDEL, KD; et al.

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Author(s): SIEMION, IZ; WILSCHOW.L; STEGLICH, W

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Inventor/Assignee: SILVA D

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Author(s): STEEPLE, H

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Author(s): VISKI, P; ZUBOVICS, Z; TOLDY, L; et al.

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Inventor/Assignee: YAMAGUCHI K

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Author(s): ZSOLNAI T

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