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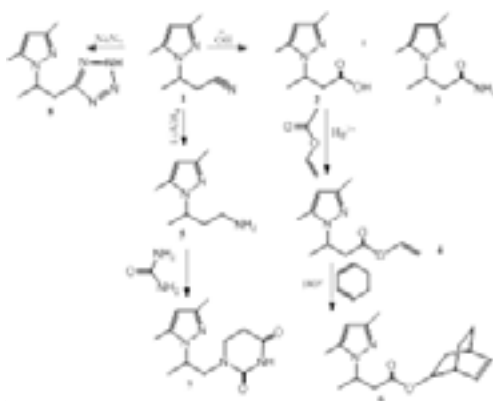
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The synthesis of exocyclic derivatives of pyrazoles based on 1H-pyrazolylbutannitriles

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The exocyclic derivatives of pyrazoles are included in the structure of many drugs, both natural and synthetic. Thus, considering the importance of obtaining exocyclic pyrazole derivatives, it is a key factor to study various transformations of chemically suitable nitrilpyrazoles (1) according to the following scheme:



The structure of obtained products were

and data of elemental analysis.

Recent publications

- Gautam V., Chawla V., Sonar K. P., K. Saraf Sh., (2010) Synthesis, characterization and antimicrobial evaluation of some 1,3,5-trisubstituted pyrazole derivatives, E-Journal of Chemistry, 7:1190-1195.
- Manna F., Chimenti F. etc., (2005) Synthesis of some pyrazole derivatives and preliminary investigation of their affinity binding to P-glycoprotein, Bioorganic & Medicinal Chemistry Letters, 15:4632:4635.
- Taylor E. C., Patel H. H., (1992) Synthesis of pyrazolo[3,4-d]pyrimidine analogues of the potent antitumor agent N-{4-[2-(2-amino-4(3H)-oxo-7H-pyrrolo[2,3-d]pyrimidin-5-yl)ethyl]benzoyl}-L-glutamic acid (LY231514), Tetrahedron, 48:8089-8100.
- Holla B.S. and others, (2000) Studies on arylfuran derivatives Part X. Synthesis and antibacterial properties of arylfuryl-Delta(2)-pyrazolines, Farmaco, 55:256-263.
- Bansal E, Srivastava V K and Kumar A, (2001), Synthesis and anti-inflammatory activity of 1-acetyl-5-substitute daryl-3-(β-aminonaphthyl)-2-pyrazolines and β-(substitute amidonaphthalenes), Eur J Med Chem., 36:81.

Biography

Hasmik Khachatryan received her master degree at Chemical faculty of Yerevan State University in 2014 under supervision of L. Galstyan. Now she is PhD student since 2015 under supervision of S. Hayotsyan and professor H. Attaryan. During her scientific work she has already done a lot of experiments and has 8 published articles. Her research interest is aza-Michael reaction through azoles in free solvent, free catalyst systems. She participated in 4th International Conference of Young Scientists "Chemistry Today-2014", Yerevan, Armenia 18-22, 2014 and „ 2nd European Organic Chemistry Congress", Amsterdam, Netherlands 02-03, 2017.

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