SYNTHESIS AND BIOLOGICAL EVALUATION OF NEW 2-AMINO-SUBSTITUTED BENZOTHIAZOLES

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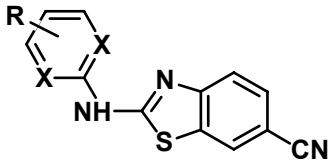
Over the past decade development of small molecule Src family kinase inhibitors has been an area of major pharmaceutical interest [1]. A large number of benzothiazole derivatives are of considerable biological and chemical interest [2]. 2-Amino-substituted benzothiazoles are reported as inhibitors of Src family kinases [3].
We prepared in multistep synthesis a series of new 2-amino substituted benzothiazoles **1-8** from 4-aminobenzonitrile. All compounds were characterized by IR, 1H- and 13C-NMR spectroscopy and elemental analysis.



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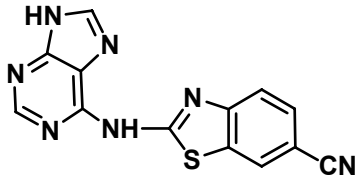

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R= -CN; X= -C
-CH_3; X= -N
-Cl; X= -N
-H; X= -N

[1] J. Das, J. Lin, R. V. Moquin, Z. Shen, S. H. Spergel, *et al.*, *Bioorg.&Med. Chem. Lett.*, **13** (2003) 2145-2149.
[2] T. D. Bradshaw, F. G. Stevens, A. D. Westwell, *Current Med. Chem.*, **8** (2001) 203-208.
[3] J. Das, R. V. Moquin, J. Lin, C. Liu, A. M. Doweyko, *et al.*, *Bioorg.&Med. Chem. Lett.*, **13** (2003) 2587-2590.