

Synthesis and Antimycobacterial and Antiprotozoal Activities of Some Novel Nitrobenzylated Heterocycles

Agata Górská^a, Lidia Chomicz^b, Justyna Żebrowska^b, Przemysław Myjak^c,
Ewa Augustynowicz-Kopeć^d, Zofia Zwolska^d, Janusz Piekarczyk^e, Henryk Rebandel^f,
and Zygmunt Kazimierczuk^{a,g}

^a Institute of Chemistry, Agricultural University, 159C Nowoursynowska St., 02-787 Warsaw, Poland

^b Department of Medical Biology, Medical University of Warsaw, 73 Nowogrodzka St.,
02-018 Warsaw, Poland

^c Department of Tropical Parasitology, Medical University of Gdansk, 9b Powstania
Styczniowego St. 81-106 Gdynia, Poland

^d National Tuberculosis and Lung Diseases Research Institute, 26 Płocka St.,
01-138 Warsaw, Poland

^e 2nd Department of Maxillofacial Surgery, Medical University of Warsaw, 4 Lindleya St.,
02-005 Warsaw, Poland

^f Department of Teaching and Effects of Education, Medical University of Warsaw, 4 Oczki St.,
02-007 Warsaw, Poland

^g Laboratory of Experimental Pharmacology, Polish Academy of Sciences Medical Research Center,
5 Pawinskiego St., 02-106 Warsaw, Poland

Reprint requests to Prof. Z. Kazimierczuk. E-mail: kazimierczuk@delta.sggw.waw.pl

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A series of N-, S-, and O-mononitro- and dinitrobenzyl derivatives of heterocycles was synthesized by alkylation of heterocyclic bases with the respective nitrobenzyl chlorides. Of the newly synthesized compounds, dinitrobenzylsulfanyl derivatives of 1-methyl-2-mercaptoimidazole (**2c**) and of 5-nitro- and 5,6-dichloro-2-mercaptobenzimidazole (**8b** and **8c**, and **8e** and **8f**, respectively) showed considerable antimycobacterial activity. On a molar basis, nine of the novel compounds showed also a considerably higher antiprotozoal efficacy than metronidazole that reduced *T. hominis* viability to 73.5% at 8 µg/ml.

Key words: Nitrobenzyl Derivatives, Antimycobacterial Activity, Antiprotozoal Activity,
Trichomonas hominis