**Full Paper** 

## Synthesis of dibazole derivatives

## © Natalia V. Meshcheryakova, Sergey I. Bobrovsky, Zoya P. Belousova,\*\* Yury P. Zarubin, and Pvotr P. Purvgin

Department of Organic, Bioorganic and Medicinal Chemistry. Samara State University. Akad. Pavlov St., 1. Samara, 443011. Samara region. Russia. Phone: +7 (846) 334-54-59. E-mail: zbelousova@mail.ru

\*Supervising author; <sup>+</sup>Corresponding author

Keywords: dibazole, 4-(2-benzyl-1H-benzimidazole-1-ylmetyl)phenol, 2-(2-benzyl-1Hbenzimidazole-1-ylmethyl)phenol, 4-(2-benzyl-1-benzimidazole-1-ylmethyl)phenyl-2,3,4,6-tetra-Oacetyl- $\beta$ -D-glucopyranoside.

## Abstract

The synthesis of dibazole derivatives: 2-(2-benzyl-1H-benzimidazole-1-ylmethyl)phenol, 4-(2-benzyl-1H-benzimidazole-1-ylmethyl)phenol, 4-(2-benzyl-1H-benzimidazole-1-ylmethyl)phenyl-2,3,4,6-tetra-O-acetyl- $\beta$ -D-glucopyranoside was implemented. The structure of the compounds was confirmed by IR and <sup>1</sup>H NMR spectroscopy. Using the program HyperChem 7.52 we built the models of molecules of synthesized derivatives of benzimidazole and calculated their physicochemical properties. According to the estimation of the alleged biological activity by the program PASS Professional 2007 the synthesized compounds may possess some types of biological action useful in pharmacology.