Synthesis of dibazole derivatives

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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-β-D-glucopyranoside was implemented. The structure of the compounds was confirmed by IR and 1H 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.