

The invention relates to the chemistry of coordinative compounds, namely to metal-organic complex compounds of copper(II) with pyrazine and pyridine derivatives, in particular to the class of 2,3-bis(2-pyridyl)pyrazine. Due to their antimicrobial and antitumor activity, these compounds may be promising candidates for use in medicine.

According to the invention, a process for producing the coordinative compound bis( $\mu_2$ -1-(7-chloro-6-methyl-2,3-bis(pyridin-2-yl)-5H-cyclopenta[b]pyrazin-5-yl)ethanone)-dichloro-di-copper(II) methanol solvate is claimed, with the formula  $[\text{Cu}_2(\text{acdpp})_2\text{Cl}_2] \cdot 2(\text{CH}_3\text{OH})$ , which consists in dissolving copper(II) chloride dihydrate and 2,3-bis(2-pyridyl)pyrazine in methanol, with subsequent addition of acetylacetone, the resulting solution is filtered and slowly evaporated with the formation of single crystals of the above compound, which comprises a new monodeprotonated ligand 1-(7-chloro-6-methyl-2,3-bis(pyridin-2-yl)-5H-cyclopenta[b]pyrazin-5-yl)ethanone, produced as a result of condensation reaction of 2,3-bis(2-pyridyl)pyrazine and acetylacetone ligands.

Claims: 1

Fig.: 3