Properties and biological activity of $[Rh(COD)(N\text{-}N)]BF_4$ and $[IrCl_2(COD)(N\text{-}N)]BF_4$ polypyridyl complexes.

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Streszczenie

Square planar rhodium(I) complexes $[Rh(COD)(N–N)]BF_4$ (COD = 1,5-cyclooctadiene, N–N = 1,10-phenanthroline (phen) (**1**), 2,2′-bipyridine (bpy) (**2**), 4,7-diphenyl-1,10-phenanthroline (dpphen) (**3**), 4,4′-dimethyl-2,2′-bipyridine (dmbpy) (**4**), dipyrido[3,2-a:2′,3′-c]-phenazine (dppz) (**5**), 2,9-dimethyl-1,10-phenanthroline (dmphen) (6)) and octahedral iridium(III) complexes $[IrCl_2(COD)(N–N)]BF_4$ (COD = 1,5-cyclooctadiene, N–N = 1,10-phenanthroline (phen) (**7**), 2,2′-bipyridine (bpy) (**8**), 4,4′-dimethyl-2,2′-bipyridine (dmbpy) (**9**)) have been obtained and characterized using spectroscopic methods. They are active agents towards Caco-2, Sk-mel, SNB-19 and C-32 tumor cells. Complexes **3**, **5** and **6** are also efficient antibacterial agents against Gram-positive bacteria and compound **3** shows antifungal activity against AD1–9 and FY yeast strains.

Słowa kluczowe

Rhodium(I) and iridium(III) complexes, Polypyridyl complexes, Antitumor agents, Antibacterial agents

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