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An anticancer metallobenzylmalonate: crystal structure and anticancer activity of a palladium complex of 2,2'-bipyridine and benzylmalonate

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Abstract

The novel metallobenzylmalonate $[\text{Pd}(\text{bipy})(\text{bmal})] \cdot 2\text{H}_2\text{O}$ (bipy = 2,2'-bipyridyl, bmal = benzylmalonate) has been synthesized and structurally characterized by element analyses, electronic spectroscopy, electrophoresis and single-crystal X-ray diffraction.

The complex has a monoclinic structure, $a = 1.018(4)$ nm, $b = 0.7018(4)$ nm, $c = 0.7018(4)$ nm, $\beta = 90.0^\circ$, $V = 0.504(4)$ nm³, $Z = 2$. The Pd atom is coordinated by two nitrogen atoms of the bipyridine ligand and two oxygen atoms of the benzylmalonate ligand in a square planar geometry. In the crystal, there are weak C-H...O interactions between the benzylmalonate ligands. The complex shows excellent anti-cancer activity towards lung cancer AGZY-83a.

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