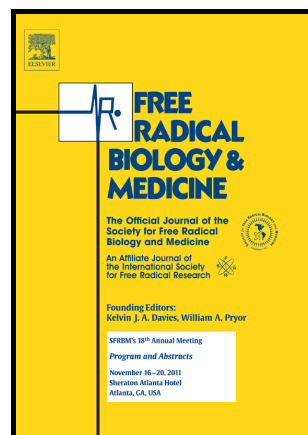


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Ruthenium complex exerts antineoplastic effects that are mediated by oxidative stress without inducing toxicity in Walker-256 tumor-bearing rats

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ABSTRACT

The present study evaluated the *in vivo* antitumor effects and toxicity of a new Ru(II) compound, cis-(Ru[phen]₂[ImH]₂)²⁺ (also called RuphenImH [RuC]), against Walker-256 carcinosarcoma in rats. After subcutaneous inoculation of Walker-256 cells in the right pelvic limb, male Wistar rats received 5 or 10 mg·kg⁻¹ RuC orally or intraperitoneally (i.p.) every 3 days for 13 days. A positive control group (2 mg·kg⁻¹ cisplatin) and negative control group (vehicle) were also used. Tumor progression was checked daily. After treatment,

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