

NEW INHIBITOR OF PROLIFERATION OF HUMAN RHABDOMYOSARCOMA RD CELLS

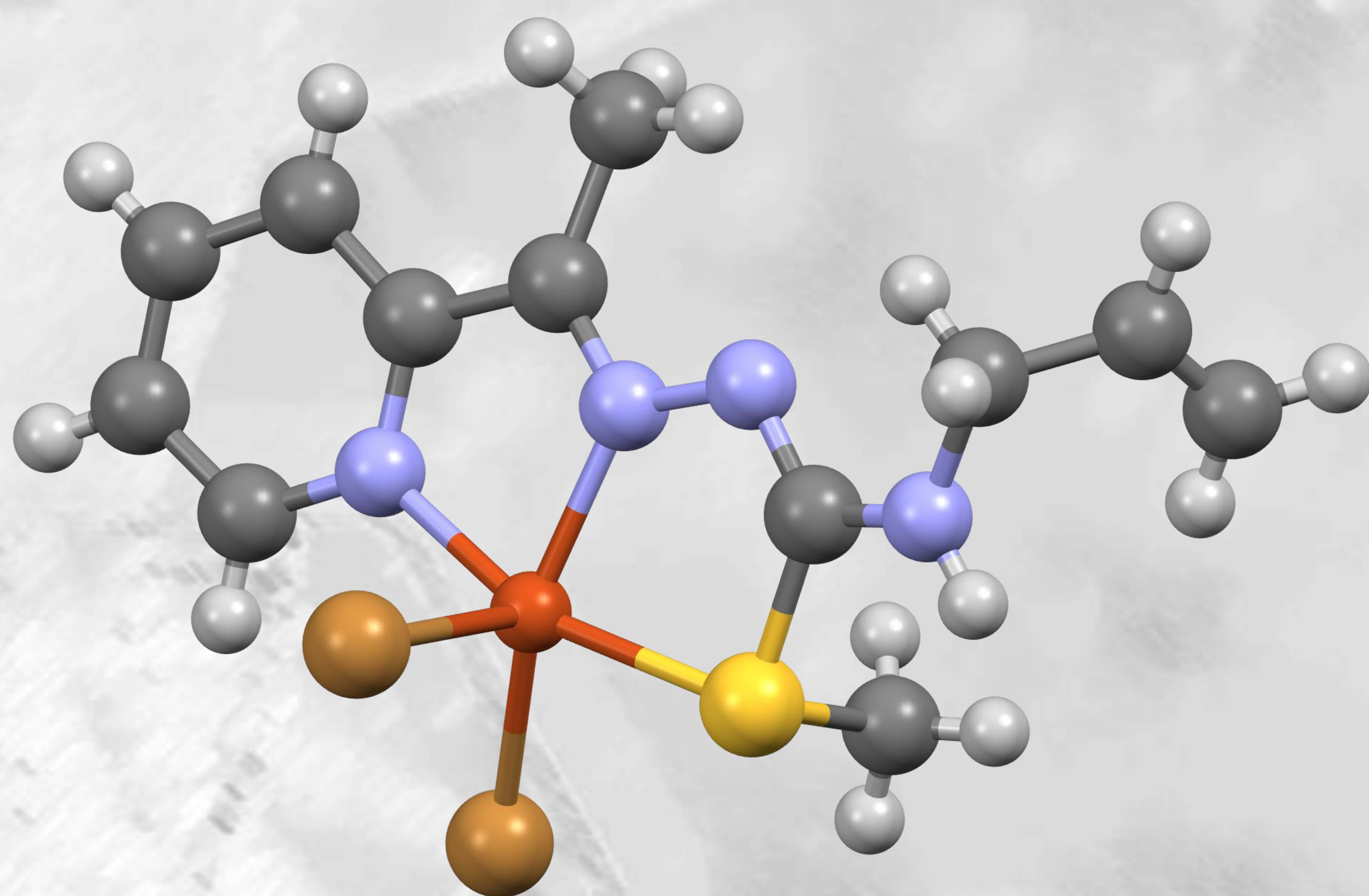
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APPLICATION FIELDS: Medicine – Pharmacy – Cosmetics.

AIM: Chemical synthesis, characterization of new synthetic inhibitor of human rhabdomyosarcoma RD cells that may find application in medicine.

SOLUTION: New copper coordination compound with thiocarbamide ligand has been obtained using the directed synthesis method.



The IC_{50} values towards RD cells

Compound	IC_{50} , $\mu\text{mol/L}$
Prototype	1,4
Structural analog	0,68
Claimed substance	0,05

ADVANTAGES: The described compound inhibits the growth and multiplication of human rhabdomyosarcoma RD cells. This agent exceeds 28 times the analogous characteristics of the prototype that is used in medical practice, and 13.6 times analogous characteristics of the structural analog. The discovered property of this substance is of interest for medical practice for enhancement of the arsenal of human rhabdomyosarcoma inhibitors.

IMPLEMENTATION STAGE: At the laboratory level

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