EXP/1042

PGS26_2014
Synthesis of peptide for cell penetration and drug delivery
Laboratoř Metalomiky a Nanotechnologií

Vás zve na seminář k projektu ID 131 (Synthesis of peptide for cell penetration and drug delivery):

Application of Zn-S-5 Schiff base complex as potential anticancer drug

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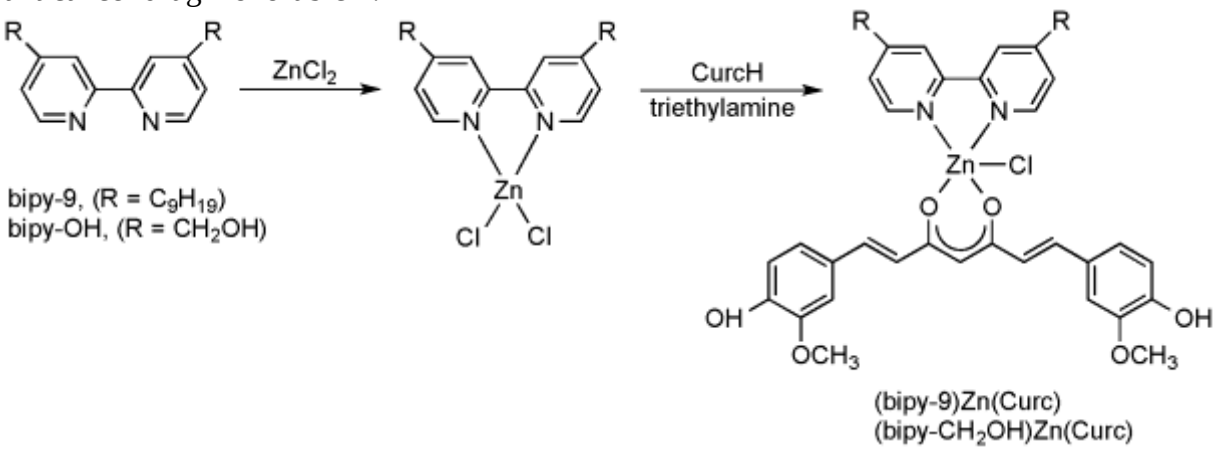
Abstract

Metal complexes of Schiff base derived from 2- thiophenecarboxaldehyde and 2-aminobenzoic acid (HL) have been recommended and/ or established a new line for search to new antitumor particularly when one knows that many workers studied the possible antitumor action of many synthetic and semi synthetic compounds. Such compounds may have a possible antitumor effect since Gram-negative bacteria are considered a quantitative microbiological method testing beneficial and important drugs in both clinical and experimental tumor chemotherapy. A tridentate Schiff base derived from the condensation of Sbenzyldithiocarbazate with salicyldehyde and its Zn, Sb, Cu complexes showed cytotoxic properties. Zn(II) complexes containing Schiff bases derived from S-benzyldthiocarbazate and saccharinate showed anticancer properties. The complexes were highly active against the leukemic cell line (HL-60) but only [Zn (NNS)(sac)] was found to exhibit strong cytotoxicity against the ovarian cancer cell line (Caov- 3). The activities being higher than the standard anticancer drug Doxorubicin.



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