Metal Complexes of Biologically Important Ligands, CLV [1]. Some Derivatives of 4-Ethynylphenylalanine

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The benzoyl protected 4-ethynyl-L-phenylalanine methyl ester gives with octacarbonyldicobalt and ethylene-bis(triphenylphosphine)platinum(0) the complexes $Co_2(CO)_6(HC{\equiv}CR)$ and $(Ph_3P)_2Pt(HC{\equiv}CR)$ (R = p-$C_6H_4CH_2CH(CO_2Me)N(HCOPh)$.

The heterocumulene $[Cp(Ph_3P)_2Ru{=}C{=}C(H)R]^+BF_4^-$ (R = p-$C_6H_4CH_2C(H)N(H)$-Boc is formed from $[Cp(Ph_3P)_2Ru]^+BF_4^-$ and N-t-Boc-4-ethynylphenylalanine methyl ester. The alkynyl bridged tetraamino acid with a tetraphenylmethane backbone C[p-$C_6H_4C{\equiv}C$-p-C_6H_4-$CH_2CH(CO_2Me)NH$-t-Boc]$_4$ was synthesized from tetrakis(4-iodophenyl)methane and N-Boc-4-ethynylphenylalanine methyl ester by Sonogashira coupling.

Key words: 4-Ethynylphenylalanine, Cobalt, Platinum, Ruthenium, Tetraphenylmethane