

The first structural characterization of a nickel(I) macrocyclic system : structure of nickel(I) diphenyldi-*p*-tolyl-21-thiaporphyrin.

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Streszczenie

Factor F_{430} (1), the prosthetic group of methyl-coenzyme M reductase, contains nickel ion in a macrocycle with N_4 coordination.¹ Observation of an ESR signal in whole cells of *Methanobacterium thermoautotrophicum* has been attributed to Factor F_{430} in the intact, active enzyme, and the g values and hyperfine

coupling constants of this signal are consistent with the presence of Ni^{I} (or Ni^{111}).² Reduction of factor F_{430} pentamethyl ester has been shown to yield a reduced species ($g = 2.065, 2.074, 2.250$) in which reduction is localized on the metal and the tetrahydrocorphin ring system is unaltered.³

Adres publiczny

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Strona internetowa wydawcy

<https://www.acs.org/content/acs/en.html>