

Reactions of cisplatin hydrolytes with thiols 3: reactions of cis-[Pt(15NH₃)₂(H₂O)₂]²⁺ with glutathione

Deskripsi Lengkap: <https://lib.ui.ac.id/detail?id=117390&lokasi=lokal>

Abstrak

The reaction of cis-[Pt(15NH₃)₂(H₂O)₂]²⁺ (3) with glutathione (GSH) was investigated in aqueous solution. In this reaction, the ammine in the platinum complex formed was liberated. Surprisingly two chelate rings were observed, six-membered-S,O-chelate ring complex cis-[Pt(15NH₃)₂(SG-S,O) (7) and five-membered-S,N-chelate ring complex cis-[Pt(15NH₃)₂(SG-S,N)] (8). The bis (thiolate) platinum(II) complex, cis-[Pt(15NH₃)₂(SG)₂] (9) was always present in this reaction in any mole ratio used. The dinuclear sulphur-bridged complex (10), giving a broad peak in 15N NMR, was only present in very tiny amounts.