**Synthesıs Of (3-(4-(1H-imidazo[4,5-f][1,10]phenanthrolin-2-yl)phenoxy)propyl) Fe3O4dimethoxysilanol) Diacetoxynickel**

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In this study, 1,10-phenanthrolene-5,6-dion was used. Phenanthrimidazole, which contains pyridine group of 1,10-phenanthroline-5,6-din and aldehyde derivatives, was prepared (SPION) - (3-Aminopropyl) triethoxysilane (CPTS) ligand compound was prepared (3-(4-(1H-imidazo[4,5-f][1,10]phenanthrolin-2-yl)phenoxy)propyl) Fe3O4dimethoxysilanol) then Ni (CH3COO) 2.4H2O was added to a solution The mixture was stirred at 90 ° C for 24 hours. The mixture cooled to room temperature was washed with water cooled to 5 ° C and the vacuum was dried.

We used (3-(4-(1H-imidazo[4,5-f][1,10]phenanthrolin-2-yl)phenoxy)propyl) Fe3O4dimethoxysilanol) Diacetoxynickel The obtained nanoparticle containing the ligand-metal complex is then will be interacted with some proteins such as albumin and hemoglobin for immobilization and the binding quantities will be compared.



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