

## عنوان مقاله:

Study of interaction between a new Schiff base and serum bovine albumin (BSA) by spectroscopic methods

## محل انتشار:

اولین کنفرانس بین المللی فناوری های نوین در علوم (سال: 1396)

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## خلاصه مقاله:

Schiff bases are aldehyde- or ketone-like compounds in which the carbonyl group is replaced by an imine or azomethine group. They are widely used for industrial purposes and also exhibit a broad range of biological activities. In this work, the quenching interaction of a new schiff base, ternary Cu(II) complexes of Schiff- base tryptophan amino acid derivatives and phenan trotline hetrocycle(B) with bovine serum albumin (BSA) was studied in vitro under optimal physiological condition (pH=7.4) by fluorescence spectroscopic techniques. The mechanism of complex was static quenching process and was confirmed by the fluorescence and Fourier transform infrared spectroscopy. The number of binding sites, quenching and binding constants were computed Stern–Volmer equation. The infrared spectra of Schiff base were also determined by using a Fourier transform infrared spectrophotometer

## کلمات کلیدی:

Schiff base, BSA, Fluorescence, FTIR, interaction

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