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**Thermodynamics of protein association reactions:  
forces contributing to stability**

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1522	Fluorescence and circular dichroism studies of conjugates between metsulfuron-methyl and human serum albumin. <b>2010</b> , 76, 441-8	27
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1321	Spectroscopic Studies on the Interaction between 2-Chlorophenol and Catalase. <b>2011</b> , 183-185, 206-210	
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1308	Specific noncovalent interactions at protein-ligand interface: implications for rational drug design. <b>2012</b> , 19, 226-38	89
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1306	Crystal Structure and Interaction With Bovine Serum Albumin of Rare Earth Complex [Nd(εC <sub>10</sub> H <sub>7</sub> CH <sub>2</sub> COO) <sub>3</sub> (C <sub>12</sub> H <sub>8</sub> N <sub>2</sub> )] <sub>2</sub> . <b>2012</b> , 42, 145-153	2
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1288	Kinetics and thermodynamics of 1-anilino-8-naphthalene sulfonate interactions with Urinary Trypsin Inhibitor. <b>2012</b> , 31, 585-91	2
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1286	Investigation of the Interaction Between N-benzyl Piperidones and Bovine Serum Albumin by Spectroscopic Approaches. <b>2012</b> , 41, 1747-1758	7
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1281	Interaction of multitryptophan protein with drug: an insight into the binding mechanism and the binding domain by time resolved emission, anisotropy, phosphorescence and docking. <b>2012</b> , 115, 93-104	19
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1251	Investigation on the interaction behavior between bisphenol A and pepsin by spectral and docking studies. <b>2012</b> , 1021, 34-39	42
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1247	Spectroscopic characterization of furosemide binding to human carbonic anhydrase II. <b>2012</b> , 50, 910-7	15
1246	Interaction of 3'-azido-3'-deamino daunorubicin with DNA: multispectroscopic and molecular modeling. <b>2012</b> , 50, 1121-6	26
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1241	Multiple spectroscopic studies on the interaction between olaquinox, a feed additive, and bovine serum albumin. <b>2012</b> , 50, 2540-6	64
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1236	Interaction of polyethyleneimine-functionalized ZnO nanoparticles with bovine serum albumin. <b>2012</b> , 28, 11142-52	117
1235	Determination of Picogram Amounts of Dihydroxybenzenes in Water Samples with Luminol/Lysozyme Chemiluminescence System. <b>2012</b> , 59, 1512-1519	4
1234	Molecular spectroscopy evidence of berberine binding to DNA: comparative binding and thermodynamic profile of intercalation. <b>2012</b> , 13, 873-80	196
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1223	Systematically investigation of interactions between BSA and different charge-capped CdSe/ZnS quantum dots. <b>2012</b> , 249, 53-60	37
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1178	Resveratrol binding to collagen and its biological implication. <b>2012</b> , 131, 879-884	22
1177	Multispectroscopic studies on the interaction of maltol, a food additive, with bovine serum albumin. <b>2012</b> , 133, 264-70	112
1176	Interaction of bovine serum albumin with self-assembled nanoparticles of 6-O-cholesterol modified chitosan. <b>2012</b> , 92, 136-41	51
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1174	Structure-activity relationships for the binding of polymyxins with human $\alpha_1$ -acid glycoprotein. <b>2012</b> , 84, 278-91	32
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1164	Studies on the binding of rhaponticin with human serum albumin by molecular spectroscopy, modeling and equilibrium dialysis. <b>2012</b> , 87, 171-8	26
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1162	In vitro investigation of the interaction between pentachlorophenol and alkaline phosphatase by spectroscopic methods. <b>2012</b> , 87, 298-302	1
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1154	Binding of dihydromyricetin to human hemoglobin: fluorescence and circular dichroism studies. <b>2012</b> , 93, 125-30	32
1153	Interaction of tetramethylpyrazine with two serum albumins by a hybrid spectroscopic method. <b>2012</b> , 93, 321-30	29
1152	Investigation the interaction of Daphnin with human serum albumin using optical spectroscopy and molecular modeling methods. <b>2012</b> , 95, 252-7	23
1151	BSA binding and antimicrobial studies of branched polyethyleneimine-copper(II)bipyridine/phenanthroline complexes. <b>2012</b> , 96, 108-16	65
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1148	The investigation of the binding behavior between ethyl maltol and human serum albumin by multi-spectroscopic methods and molecular docking. <b>2012</b> , 96, 316-23	28
1147	Spectroscopic studies on the interaction of calf thymus DNA with the drug levetiracetam. <b>2012</b> , 96, 278-83	85

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1143	Quantization of bovine serum albumin by fluorescence enhancement effects and corresponding binding of macrocyclic host-protein assembly. <b>2012</b> , 106, 113-9	8
1142	Interaction of Merocyanine 540 with serum albumins: photophysical and binding studies. <b>2012</b> , 108, 23-33	49
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1140	Thermodynamic and conformational investigation of the influence of CdTe QDs size on the toxic interaction with BSA. <b>2012</b> , 230, 23-30	37
1139	Investigation of the fluorescence quenching of bovine serum albumin by certain substituted uracils. <b>2012</b> , 168, 1-6	8
1138	Investigation on the pH-dependent binding of vitamin B12 and lysozyme by fluorescence and absorbance. <b>2012</b> , 1007, 102-112	27
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1132	Investigation of three flavonoids binding to bovine serum albumin using molecular fluorescence technique. <b>2012</b> , 132, 132-140	40
1131	Ilaprazole metabolites, ilaprazole sulfone and ilaprazole sulfide decreased the affinity of ilaprazole to bovine serum albumin. <b>2012</b> , 132, 350-356	16
1130	Study on the interaction between tabersonine and human serum albumin by optical spectroscopy and molecular modeling methods. <b>2012</b> , 132, 592-599	10
1129	Interaction mechanisms of ionic liquids [Cnmim]Br (n=4, 6, 8, 10) with bovine serum albumin. <b>2012</b> , 132, 622-628	71

1128	Interactions between 4-(2-dimethylaminoethoxy)-N-octadecyl-1,8-naphthalimide and serum albumins: Investigation by spectroscopic approach. <b>2012</b> , 132, 879-886	22
1127	Investigation on the interactions of silymarin to bovine serum albumin and lysozyme by fluorescence and absorbance. <b>2012</b> , 132, 895-900	37
1126	Spectroscopic studies on the interaction of bovine serum albumin with ginkgolic acid: Binding characteristics and structural analysis. <b>2012</b> , 132, 1207-1214	46
1125	Synthesis of p-hydroxycinnamic acid derivatives and investigation of fluorescence binding with bovine serum albumin. <b>2012</b> , 132, 1290-1298	17
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1123	A CRITICAL STUDY ON THE INTERACTIONS OF HESPERITIN WITH HUMAN HEMOGLOBIN: FLUORESCENCE SPECTROSCOPIC AND MOLECULAR MODELING APPROACH. <b>2012</b> , 132, 1522-1528	35
1122	Interaction of different thiol-capped CdTe quantum dots with bovine serum albumin. <b>2012</b> , 132, 1695-1700	34
1121	Investigation of proton pump inhibitors binding with bovine serum albumin and their relationship to molecular structure. <b>2012</b> , 132, 1921-1928	13
1120	Spectroscopic study on the interaction of eugenol with salmon sperm DNA in vitro. <b>2012</b> , 132, 2355-2360	66
1119	The application of amine-terminated silicon quantum dots on the imaging of human serum proteins after polyacrylamide gel electrophoresis (PAGE). <b>2012</b> , 18, 1438-43	13
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1107	Interactions between m-phenylenediamine and bovine serum albumin measured by spectroscopy. <b>2013</b> , 28, 226-31	6
1106	Interaction of cyproheptadine hydrochloride with human serum albumin using spectroscopy and molecular modeling methods. <b>2013</b> , 28, 244-52	7
1105	Synthesis and interaction of bovine serum albumin with p-hydroxybenzoic acid derivatives. <b>2013</b> , 28, 419-26	5
1104	Elucidation of monomerization effect of PVP on chlorin e6 aggregates by spectroscopic, chemometric, thermodynamic and molecular simulation studies. <b>2013</b> , 23, 1065-76	25
1103	Investigation of binding properties of umbelliferone (7hydroxycoumarin) to lysozyme. <b>2013</b> , 23, 333-8	6
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1099	Spectroscopic Investigation of the Interactions of Cryptotanshinone and Icaritin with Two Serum Albumins. <b>2013</b> , 42, 1238-1262	8
1098	Investigation on the Binding Behavior of Ellagic Acid to Human Serum Albumin in Aqueous Solution. <b>2013</b> , 42, 226-238	18
1097	Interaction of artemisinin and its derivatives with human serum albumin studied using spectroscopies and molecular modeling methods. <b>2013</b> , 40, 4791-804	18
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1093	Insights into the binding of paclitaxel to human serum albumin: multispectroscopic studies. <b>2013</b> , 28, 427-34	25

1092	Determination of Total Chromium in Biological Samples by Automated Reagent Injection Chemiluminescence Analysis. <b>2013</b> , 46, 1804-1815	4
1091	Interaction of acriflavine with pyrimidines: a spectroscopic approach. <b>2013</b> , 114, 316-22	7
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1083	Fast enantioseparation by HPLC on a modified carbon nanotube monolithic stationary phase with a pyrenyl aminoglycoside derivative. <b>2013</b> , 115, 418-21	21
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1068	Comparing the effects of Fe(III) and Cu(II) on the binding affinity of erlotinib to bovine serum albumin using spectroscopic methods. <b>2013</b> , 134, 515-523	12
1067	Assessment of the interaction between fraxinellone and bovine serum albumin by optical spectroscopy and molecular modeling methods. <b>2013</b> , 137, 180-185	16
1066	Exploring the mechanism of interaction between sulindac and human serum albumin: Spectroscopic and molecular modeling methods. <b>2013</b> , 138, 8-14	19
1065	Molecular interactions of benzophenone UV filters with human serum albumin revealed by spectroscopic techniques and molecular modeling. <b>2013</b> , 263 Pt 2, 618-26	51
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1062	Correlation between biological activity and electron transferring of bovine liver catalase: Osmolytes effects. <b>2013</b> , 113, 591-602	3
1061	Spectroscopic studies on the interaction characteristics between norethisterone and bovine serum albumin. <b>2013</b> , 134, 580-587	6
1060	Study of interaction between human serum albumin and three antioxidants: ascorbic acid, Tocopherol, and proanthocyanidins. <b>2013</b> , 70, 22-36	58
1059	Comparative study of the binding of pepsin to four alkaloids by spectrofluorimetry. <b>2013</b> , 108, 62-74	33
1058	Comparative studies of the binding of six phthalate plasticizers to pepsin by multispectroscopic approach and molecular modeling. <b>2013</b> , 61, 11191-200	46
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1052	Comparative study of the binding of trypsin to caffeine and theophylline by spectrofluorimetry. <b>2013</b> , 138, 258-266	26
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1045	The fluorescence spectroscopic studies on the interaction of novel aminophosphinic acids with bovine serum albumin. <b>2013</b> , 139, 104-112	26
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1042	Micellar-mediated binding interaction between proflavine hemisulfate and salicylic acid: spectroscopic insights and its analytical application. <b>2013</b> , 28, 821-6	4
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1040	Study of the Interaction between Bovine Serum Albumin and Ligustrazine with Spectroscopic Techniques. <b>2013</b> , 46, 211-217	2
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1036	The influence of common metal ions on the interactions of the isoflavone genistein with bovine serum albumin. <b>2013</b> , 102, 393-402	34
1035	Unraveling the binding interaction and kinetics of a prospective anti-HIV drug with a model transport protein: results and challenges. <b>2013</b> , 15, 1275-87	90
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1032	Molecular interaction of PCB153 to human serum albumin: insights from spectroscopic and molecular modeling studies. <b>2013</b> , 248-249, 313-21	27
1031	Synthesis of new pyrimidine-fused derivatives as potent and selective antidiabetic $\beta$ glucosidase inhibitors. <b>2013</b> , 380, 81-91	41
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1028	The interaction of 2-mercaptobenzimidazole with human serum albumin as determined by spectroscopy, atomic force microscopy and molecular modeling. <b>2013</b> , 104, 311-7	28
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1026	Fluorescence spectroscopy of osthole binding to human serum albumin. <b>2013</b> , 3, 200-204	18
1025	Spectroscopic and molecular modeling study on the interaction of ctDNA with 3'-deoxy-3'-azido doxorubicin. <b>2013</b> , 141, 144-149	24
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1022	Binding study of novel anti-diabetic pyrimidine fused heterocycles to $\beta$ actoglobulin as a carrier protein. <b>2013</b> , 112, 374-9	17
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1020	Spectroscopic investigation of tolmetin interaction with human serum albumin. <b>2013</b> , 85, 277-82	20
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1009	Investigation of the interaction between indigotin and two serum albumins by spectroscopic approaches. <b>2013</b> , 3, 257-269	27
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984	Interaction of bovine serum albumin with a psychotropic drug alprazolam: Physicochemical, photophysical and molecular docking studies. <b>2013</b> , 142, 220-230	61
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982	A comparison study on the binding of hesperetin and luteolin to bovine serum albumin by spectroscopy. <b>2013</b> , 103, 114-9	21
981	Systematic investigation of the toxic mechanism of difenoconazole on protein by spectroscopic and molecular modeling. <b>2013</b> , 105, 155-160	12
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959	Characterization of the interaction between 3-Oxotabersonine and two serum albumins by using spectroscopic techniques. <b>2013</b> , 138, 1-7	26
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949	Effect of ethanediamine on bio-polishing of cotton fabrics with cellulase. <b>2013</b> , 20, 3093-3100	1

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945	Mechanism of cinnamic acid-induced trypsin inhibition: a multi-technique approach. <b>2013</b> , 116, 251-7	22
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941	Synthesis of Amide Compounds of Ferulic Acid and Their Association with Bovine Serum Albumin. <b>2013</b> , 46, 544-553	4
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935	Determination of the Binding Parameters between Proteins and Luminol by Chemiluminescence Using Flow Injection Technique. <b>2013</b> , 2013, 1-5	
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914	Investigation of neohesperidin dihydrochalcone binding to human serum albumin by spectroscopic methods. <b>2014</b> , 155, 198-204	81
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881	The interaction of plant-growth regulators with serum albumin: molecular modeling and spectroscopic methods. <b>2014</b> , 67, 123-30	20
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859	Inhibition study on insulin fibrillation and cytotoxicity by paclitaxel. <b>2014</b> , 155, 361-73	32

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839	Interaction of human serum albumin with Fe(III) deferasirox studied by multispectroscopic methods. <b>2014</b> , 149, 251-257	18
838	Molecular modeling and spectroscopic studies on the interaction of the chiral drug venlafaxine hydrochloride with bovine serum albumin. <b>2014</b> , 122, 100-6	41
837	Facile synthesis of N-acetyl-L-cysteine capped CdHgSe quantum dots and selective determination of hemoglobin. <b>2014</b> , 117, 198-203	19
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835	Study on the interaction of catalase with pesticides by flow injection chemiluminescence and molecular docking. <b>2014</b> , 108, 26-32	9
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831	Multi-spectroscopic analysis and molecular modeling on the interaction of curcumin and its derivatives with human serum albumin: a comparative study. <b>2014</b> , 124, 265-76	41
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820	Investigation of the interaction between isomeric derivatives and human serum albumin by fluorescence spectroscopy and molecular modeling. <b>2014</b> , 154, 8-14	14
819	Interaction of donepezil with human serum albumin on amine-modified magnetic nanoparticles. <b>2014</b> , 442, 139-145	27
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807	Spectroscopic studies on the interaction mechanisms of safranin T with herring sperm DNA using acridine orange as a fluorescence probe. <b>2014</b> , 27, 131-7	13
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804	A visual sensor array for pattern recognition analysis of proteins using novel blue-emitting fluorescent gold nanoclusters. <b>2014</b> , 86, 11634-9	115
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802	Fluorescence Spectrometry of the Interaction of Multi-Walled Carbon Nanotubes with Catalase. <b>2014</b> , 81, 795-800	6
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795	Sensitive fluorescence "off-on" switch system for catechins detection based on water-soluble polythiophene derivatives. <b>2014</b> , 6, 5812-5817	5
794	Interaction of the 5-fluorouracil analog 5-fluoro-2'-deoxyuridine with 'N' and 'B' isoforms of human serum albumin: a spectroscopic and calorimetric study. <b>2014</b> , 10, 2954-64	53
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790	Characterization of the Binding of the Finland Trityl Radical with Bovine Serum Albumin. <b>2014</b> , 4, 47649-47656	49
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788	Effects of bisphenol S on the structures and activities of trypsin and pepsin. <b>2014</b> , 62, 11303-11	36
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463	Spectroscopic and computational investigation of the interaction between the new anticancer agent enasidenib and human serum albumin.. <b>2021</b> , 270, 120790	

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455	Interactions of a Ruthenium-Ketoprofen Compound with Human Serum Albumin and DNA: Insights from Spectrophotometric Titrations and Molecular Docking Calculations. <b>2022</b> , 7,	1
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448	Determination of Graphene Oxide Adsorption Space by Lysozyme Uptake-Mechanistic Studies.. <b>2022</b> ,	0
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440	The inhibitory effects of natural antioxidants on protein glycation as well as aggregation induced by methylglyoxal and underlying mechanisms.. <b>2022</b> , 212, 112360	0
439	Exploration of interaction between angiotensin I-converting enzyme (ACE) and the inhibitory peptide from Wakame ( <i>Undaria pinnatifida</i> ).. <b>2022</b> , 204, 193-193	
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437	Tumor-Microenvironment-Responsive Biodegradable Nanoagents Based on Lanthanide Nucleotide Self-Assemblies toward Precise Cancer Therapy.. <b>2022</b> ,	0
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432	Protein-Mediated Fluorescence Resonance Energy Transfer (P-FRET) Probe: Fabrication and Hydroxyl Radical Detection.. <b>2022</b> ,	0
431	The interaction mechanism between gold nanoparticles and proteins: Lysozyme, trypsin, pepsin, Eglobulin, and hemoglobin.. <b>2022</b> , 272, 120983	1
430	Insight into the binding characteristics of rutin and alcohol dehydrogenase: Based on the biochemical method, spectroscopic experimental and molecular model.. <b>2022</b> , 228, 112394	1
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