

# **Protein-Solvent Interactions**

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The stability of proteins is affected by a variety of solvent additives. Sugars, certain amino acids and salts, and polyhydric alcohols stabilize proteins in solution

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### **Conformational response to solvent interaction and**

Conformational Response to Solvent Interaction and Temperature of a Protein (Histone h3.1) by a Multi-Grained Monte Carlo Simulation. Ras B. Pandey ,

### **Analysis of protein solvent interactions in**

Analysis of protein solvent interactions in glucose dehydrogenase from the extreme halophile *Haloferax mediterranei*. K. Linda Britton \*

### **The optimization of protein-solvent interactions**

The optimization of protein-solvent interactions: thermostability and the role of hydrophobic and electrostatic interactions.

### **The role of solvent interactions in protein -**

THE ROLE OF SOLVENT INTERACTIONS IN PROTEIN CONFORMATION Author: F. Franks  
Unilever Research Colworth/Welwyn Sharnbrook, Bedford, England D. E. England

### **Acetonitrile- protein interactions: amino acid**

Acetonitrile-protein interactions: The solubility of amino acids and the preferential solvent interaction of hen-egg lysozyme in acetonitrile (AN)

### **"the role of protein-solvent interactions in**

Protein unfolding occurs when the balance of forces between the protein's interaction with itself and the protein's interaction with its environment is disrupted. The

### **Effects of osmolytes on protein-solvent**

We analyzed the effect of a natural osmolyte, trimethylamine N-oxide (TMAO), on structural properties and conformational stabilities of several proteins under m

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### **Evidence of nonspecific surface interactions**

To confirm the presence of nonspecific xenon-protein interactions, xenon chemical shifts were also measured as a function of denatured protein concentration (Fig

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1. Introduction. The central importance of solvent interactions in stabilization of specific protein structure has long been recognized. Decades ago, Tanford and

## **Characterization of protein-solvent interactions**

Multidimensional NMR techniques for the investigation of interactions between biological macromolecules and solvent molecules are discussed. Examples for the us

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## **Protein-water interaction studied by solvent 1h,**

2668 Biophysics: Koenig et al. time or distribution of lifetimes of exchanging protons or water molecules on the protein. We have no alternative

## **Protein- solvent preferential interactions,**

Protein-solvent preferential interactions, protein hydration, and the modulation of biochemical reactions by solvent components

## **Preferential solvent interactions between proteins**

Abstract. Preferential solvent interactions between polyethylene glycols and five proteins were investigated by density measurements and analyzed by

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The new paradigm for protein research; solvent interactions with proteins as revealed by X-ray crystallographic studies; protein hydration and glass transition

## **Role of local electrostatic fields in protein-**

Title: Role of local electrostatic fields in protein-protein and protein-solvent interactions determined by vibrational Stark effect spectroscopy

## **Interaction of organic solvents with protein**

Interaction of organic solvents with protein structures at protein-solvent interface Journal Journal of Molecular Modeling Volume 19,

### **Protein precipitation - wikipedia, the free**

Protein Precipitation is widely used in downstream processing of biological products in order to concentrate proteins and purify them from various contaminants.

### **Protein structures and protein-solvent**

Protein structures and protein-solvent interactions : Development and application of methods in high-resolution nuclear magnetic resonance spectroscopy

### **The of vol. 256. no. 2, issue of january 25, pp**

THE JOURNAL OF BIOLOGICAL CHEMISTRY Vol. 256. No. 2, Issue of January 25, pp. 625-631, 1981 Printed in U.S.A. Preferential Solvent Interactions between Proteins and

### **Mechanism of stabilization of proteins by**

Since, addition of cosolvents affects the nature of net protein-solvent interactions; protein solubility is anticipated to be significantly affected by the presence

### **Solvent interactions with n ring systems in**

Abstract. The interaction of water molecules with apolar amino acids is an important aspect of the hydrophobic effect and hence of protein folding.

### **Thermodynamic relationships between protein-**

Thermodynamic relationships between protein-solvent and protein-protein interactions protein-solvent interactions on A2 is strongly modulated by the

### **Protein protein interaction - wikipedia, the**

Protein protein interactions (PPIs) refer to intentional physical contacts established between two or more proteins as a result of biochemical events and/or

### **Preferential and absolute interactions of solvent**

How to Cite. Inoue, H. and Timasheff, S. N. (1972), Preferential and absolute interactions of solvent components with proteins in mixed solvent systems.

### **Effect of protein solvent interactions on protein**

PROTEIN-SOLVENT INTERACTIONS 463 the many-body contributions (51). Other water-water potentials are effective pair potentials (288). They are parameterized from

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### **Parameterization of solvent- protein interaction**

Parameterization of Solvent-Protein Interaction and Its Use on NMR Protein Structure Determination

### **Influence of the solvent structure on the**

Influence of the Solvent Structure on the Electrostatic Interactions in Proteins. effects in the long-range interionic interaction in a polar solvent.

### **Protein-solvent interactions (book, 1995)**

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