### Accepted Manuscript

Spectroscopic methods for assessing the molecular origins of macroscopic solution properties of highly concentrated liquid protein solutions

Jacob Blaffert, Haleh Hashemi Haeri, Michaela Blech, Dariush Hinderberger, Patrick Garidel

PII: S0003-2697(18)30610-9

DOI: 10.1016/j.ab.2018.09.013

Reference: YABIO 13135

To appear in: Analytical Biochemistry

Received Date: 9 June 2018

Revised Date: 8 September 2018

Accepted Date: 17 September 2018

Please cite this article as: J. Blaffert, H.H. Haeri, M. Blech, D. Hinderberger, P. Garidel, Spectroscopic methods for assessing the molecular origins of macroscopic solution properties of highly concentrated liquid protein solutions, *Analytical Biochemistry* (2018), doi: https://doi.org/10.1016/j.ab.2018.09.013.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



# Spectroscopic Methods for Assessing the Molecular Origins of Macroscopic Solution Properties of Highly Concentrated Liquid Protein Solutions

Jacob Blaffert<sup>1</sup>, Haleh Hashemi Haeri<sup>1</sup>, Michaela Blech<sup>2</sup>, Dariush Hinderberger<sup>1</sup>,

Patrick Garidel\*,1,2

AUTHOR ADDRESS

<sup>1</sup>Institute of Chemistry, Martin-Luther-University Halle-Wittenberg, Von-Danckelmann-Platz 4, 06120 Halle/Saale, Germany

<sup>2</sup>Boehringer Ingelheim Pharma GmbH & Co. KG, Protein Science, Birkerndorfer Str. 65, 88397 Biberach/Riß, Germany

#### KEYWORDS

Spectroscopy; protein-protein self-interaction; high protein concentration; monoclonal antibodies; colloidal stability; self-association; molecular crowding

#### **Corresponding Author**

\*Patrick Garidel (Dr. rer. nat.), Process Science, Protein Science, Boehringer Ingelheim Pharma GmbH & Co. KG, D-88397 Biberach an der Riß, Germany. Tel. +49 7351 545556, E-mail: patrick.garidel@boehringer-ingelheim.com Download English Version:

## https://daneshyari.com/en/article/11027401

Download Persian Version:

https://daneshyari.com/article/11027401

Daneshyari.com