

Publication Type: Journal Article

Year of Publication: 2017

Authors: Arbogast, LW, Delaglio, F, Schiel, JE, Marino, JP

Journal: Anal Chem

Date Published: 2017 Sep 22

ISSN: 1520-6882

Abstract: Two-dimensional (2D) 1H-13C methyl NMR provides a powerful tool for characterizing the higher order structure (HOS) of monoclonal antibody therapeutics. In this study, we employ multivariate analysis, specifically principal component analysis (PCA), to explore the variability in methyl NMR spectra of a panel of monoclonal antibodies. We illustrate how spectral variability identified by PCA can be correlated to structural differences, providing insights into the structural diversity of these therapeutic proteins.

DOI: 10.1021/acs.analchem.7b03571


Pubmed ID: 28937210