

Determination of the spatial structure of glutathione by residual dipolar coupling analysis

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Abstract

The approach based on analysis of the residual ^1H - ^{13}C dipolar couplings in molecules partially aligned in a lyotropic liquid crystalline medium was used in the NMR investigation of the reduced glutathione (Glu-Cys-Gly; GSH) structure in a lyotropic medium (cetylpyridinium chloride-*n*-hexanol). The spatial structure of GSH in solution was established on the basis of the experimental data for observed couplings only. Copyright © 2005 John Wiley & Sons, Ltd.

<http://dx.doi.org/10.1002/mrc.1650>

Keywords

γ -L-glutamyl-L-cysteinylglycine, ^{13}C NMR, ^1H NMR, Cetylpyridinium chloride, Lyotropic medium, NMR, Residual dipolar couplings, Spatial structure