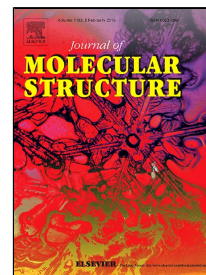


Accepted Manuscript

Spectral investigations and DFT studies of 3,7-dihydro-1,3,7-trimethyl-1*H*-purine-2,6-dione (caffeine) interaction and recognition by single amino acid derived self-assembled nanostructures



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PII: S0022-2860(17)31570-3
DOI: 10.1016/j.molstruc.2017.11.082
Reference: MOLSTR 24569
To appear in: *Journal of Molecular Structure*
Received Date: 09 September 2017
Revised Date: 19 November 2017
Accepted Date: 20 November 2017

Please cite this article as: R. Govindhan, B. Karthikeyan, Spectral investigations and DFT studies of 3,7-dihydro-1,3,7-trimethyl-1*H*-purine-2,6-dione (caffeine) interaction and recognition by single amino acid derived self-assembled nanostructures, *Journal of Molecular Structure* (2017), doi: 10.1016/j.molstruc.2017.11.082

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Research Highlights

Spectral investigations and DFT studies of 3,7-dihydro-1,3,7-trimethyl-1H-purine-2,6-dione (caffeine) interaction and recognition by single amino acid derived self-assembled nanostructures

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- Interaction of caffeine with BTPNTs is investigated .
- BTPNTs@caffeine is characterized by Experiments and theory.
- BTPNT are good SERS substrates is proposed
- This study is useful for developing novel drug delivery system and sensors

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