



Library Indian Institute of Science Education and Research Mohali



DSpace@IISERMohali (/jspui/)
/ Publications of IISER Mohali (/jspui/handle/123456789/4)
/ Research Articles (/jspui/handle/123456789/9)

Please use this identifier to cite or link to this item: <http://hdl.handle.net/123456789/2085>

Title:	Synthesis, structural and magnetic characterizations of a dinuclear copper(II) complex with an (N,S,O) donor ligand: Catecholase and phenoxazinone synthase activities
Authors:	Ali, Anzar (/jspui/browse?type=author&value=Ali%2C+Anzar) Singh, Yogesh (/jspui/browse?type=author&value=Singh%2C+Yogesh)
Keywords:	Copper Schiff base Catecholase activity Phenoxazinone synthase
Issue Date:	2018
Publisher:	Elsevier B.V.
Citation:	Inorganica Chimica Acta, 474, pp. 156-163
Abstract:	A new dinuclear Cu(II) complex (1) was synthesized and crystallographically characterized. Each of the Cu(II) centres has penta coordination and been found to adopt square pyramidal geometry. Variable temperature magnetic measurements showed that there is weak ferromagnetic interaction between the Cu(II) centres in 1. 1 shows catecholase as well as phenoxazinone synthase activities in different solvents. The turn over numbers for the catecholase activity were $4.02 \times 10^3 \text{ h}^{-1}$ (MeOH) and $9.57 \times 10^3 \text{ h}^{-1}$ (MeCN), and that of phenoxazinone synthase activity were $1.065 \times 10^3 \text{ h}^{-1}$ (MeOH), $2.13 \times 10^2 \text{ h}^{-1}$ (MeCN) and $2.844 \times 10^3 \text{ h}^{-1}$ (DCM).
Description:	Only IISERM authors are available in the record.
URI:	https://www.sciencedirect.com/science/article/pii/S0020169317318388 (https://www.sciencedirect.com/science/article/pii/S0020169317318388) http://hdl.handle.net/123456789/2085 (http://hdl.handle.net/123456789/2085)
Appears in Collections:	Research Articles (/jspui/handle/123456789/9)

Files in This Item:

File	Description	Size	Format	
Need to add pdf.odt (/jspui/bitstream/123456789/2085/1/Need%20to%20add%20pdf.odt)		8.63 kB	OpenDocument Text	View/Open (/jspui/bitstream/123456789/2085/1/Need%20to%20add%20pdf.odt)

Show full item record (/jspui/handle/123456789/2085?mode=full)

(/jspui/handle/123456789/2085/statistics)

Items in DSpace are protected by copyright, with all rights reserved, unless otherwise indicated.

