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Title:	Synthesis, crystal structure and catecholase activity of a vanadium(V) Schiff base complex
Authors:	Yadav, H.R. (/jspui/browse?type=author&value=Yadav%2C+H.R.) Choudhury, A.R. (/jspui/browse?type=author&value=Choudhury%2C+A.R.)
Keywords:	Vanadium Schiff base X-ray structure 51V NMR
Issue Date:	2016
Publisher:	Elsevier
Citation:	Polyhedron, 111, pp.118-122.
Abstract:	An X-ray structurally characterized vanadium(V) complex, [VO <sub>2</sub> (L-H)] [L-H = H <sub>2</sub> L derived ligand (H <sub>2</sub> L = N,N'-(salicyaldimine)-1,3-diaminopropan-2-ol], was found to behave as an effective catalyst towards the oxidation of 3,5-di-tert-butylcatechol in methanol to its corresponding quinone derivative in aerial oxygen. The reaction follows Michaelis-Menten enzymatic reaction kinetics with a turnover number (Kcat) of 2.063 × 10 <sup>3</sup> h <sup>-1</sup> .
Description:	Only IISERM authors are available in the record.
URI:	<a href="https://www.sciencedirect.com/science/article/pii/S0277538716300237">https://www.sciencedirect.com/science/article/pii/S0277538716300237</a> ( <a href="https://www.sciencedirect.com/science/article/pii/S0277538716300237">https://www.sciencedirect.com/science/article/pii/S0277538716300237</a> ) <a href="http://hdl.handle.net/123456789/2564">http://hdl.handle.net/123456789/2564</a> ( <a href="http://hdl.handle.net/123456789/2564">http://hdl.handle.net/123456789/2564</a> )
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