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Title:	Comprehensive study towards the desulfonylation/desulfinylation of cis-3-functionalized 3-phenylsulfonyl/sulfinyl- $\beta$ -lactams to access novel cis-3-monosubstituted- $\beta$ -lactams
Authors:	Khullar, S. (/jspui/browse?type=author&value=Khullar%2C+S.) Mandal, S.K. (/jspui/browse?type=author&value=Mandal%2C+S.K.)
Keywords:	Trans-3-Phenylsulfinyl- $\beta$ -lactams C-3 functionalization Michael addition Desulfonylation
Issue Date:	2018
Publisher:	Elsevier Ltd
Citation:	Tetrahedron, 74(33), pp. 4400-4408
Abstract:	An inclusive study towards the stereospecific synthesis of novel cis-3-monosubstituted- $\beta$ -lactams from cis-3-functionalized 3-phenylsulfonyl/sulfinyl- $\beta$ -lactams is described. 3-Sulfinyl- $\beta$ -lactams 5/5' successfully furnished stereospecific cis-3-monosubstituted- $\beta$ -lactams 6, however 3-sulfonyl- $\beta$ -lactams 2 failed to give the desulfurized product 6'. The final stereochemical and structural conformations of novel $\beta$ -lactams were established by single crystal X-ray crystallographic study (5c). The cis configuration of the $\beta$ -lactams 5/5' and 6 was assigned in relevance to E and C4-H and C3-H and C4-H respectively.
Description:	Only IISERM authors are available in the record.
URI:	<a href="https://www.sciencedirect.com/science/article/pii/S0040402018307993">https://www.sciencedirect.com/science/article/pii/S0040402018307993</a> ( <a href="https://www.sciencedirect.com/science/article/pii/S0040402018307993">https://www.sciencedirect.com/science/article/pii/S0040402018307993</a> ) <a href="http://hdl.handle.net/123456789/1903">http://hdl.handle.net/123456789/1903</a> ( <a href="http://hdl.handle.net/123456789/1903">http://hdl.handle.net/123456789/1903</a> )
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