

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)

Title:	Facile synthesis of novel monocyclic trans- and cis-3-oxy/thio/seleno-4-pyrazolyl-β-lactams
Authors:	Mandal, S. (/jspui/browse?type=author&value=Mandal%2C+S.) Khullar, S. (/jspui/browse?type=author&value=Khullar%2C+S.)
Keywords:	Pyrazole derivatives Trans- and cis-3-oxy/thio/seleno-4-pyrazolyl-β-lactams X-ray crystal structure β-Lactams
Issue Date:	2015
Publisher:	Arkat
Citation:	Arkivoc, 2015(7)
Abstract:	A facile synthesis of novel monocyclic trans- and cis-3-oxy/thio/seleno-4-pyrazolyl- β -lactams (5, is described. The reaction of 2-methoxy/phenoxy/benzyl/phenylthio/seleno ethanoic acids or acetoxyacetyl chloride 4 with pyrazolyl substituted Schiff's bases 3a-d using POCl3 and Et3N in refluxing toluene furnished β -lactams (5, 6). These synthesized β -lactams have been characterized by spectroscopic techniques viz. NMR (1H, 13C and 77Se), FT-IR, mass spectrometry (EI-MS and HRMS) and elemental analysis. Single crystal X-ray crystallographic study of trans-1-(4'-methoxyphenyl)-3-methoxy-4-(5'-chloro-3'-methyl-1'-phenyl-1H-pyrazol-4'-yl)azetidin-2-one 5p has confirmed the molecular structure and the stereochemical outcome. Th cis or trans configuration of β -lactams (5, 6) was assigned with respect to position of C3-H and C4-H. © 2015 ARKAT-USA, Inc.
Description:	Only IISERM authors are available in the record.
URI:	https://quod.lib.umich.edu/a/ark/5550190.p009.172?view=pdf (https://quod.lib.umich.edu/a/ark/5550190.p009.172?view=pdf) http://hdl.handle.net/123456789/2819 (http://hdl.handle.net/123456789/2819)
Appears in Collections:	Research Articles (/jspui/handle/123456789/9)

	Files in This item:				
	File	Description	Size	Format	
	Need to add pdf.odt (/jspui/bitstream/123456789/2819/1/Need%20to%20add%20pdf.odt)		8.63 kB	OpenDocument Text	View/Open (/jspui/bitstream/12345

Show full item record (/jspui/handle/123456789/2819?mode=full)

(/jspui/handle/123456789/2819/statistics)

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