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Title:	Diastereoselective construction of a new class of nicotine analogues having contiguous stereocenters via 1,3-dipolar cycloaddition of azomethine ylides
Authors:	Vadla, R. (/jspui/browse?type=author&value=Vadla%2C+R.) Babu, S.A. (/jspui/browse?type=author&value=Babu%2C+S.A.)
Keywords:	Synthesis Nicotine Cycloaddition
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Publisher:	NISCAIR
Citation:	Indian Journal of Chemistry - Section A Inorganic, Physical, Theoretical and Analytical Chemistry, 52A, pp. 1113-1127.
Abstract:	Diastereoselective synthesis of several nicotine analogues via the intermolecular cycloaddition of azomethine ylides derived from the condensation reaction of nicotinaldehyde/ picolinaldehyde/ isonicotinaldehyde and N-methyl glycine/N-benzyl glycine hydrochloride with several readily available electron-deficient 2p components, (maleimides, dialkyl fumarates, dialkyl maleates and fumaronitrile) is reported. The assembling of a new class of nicotine analogues/ functionalized 2-pyridylpyrrolidine derivatives having contiguous stereocenters has been accomplished. The stereochemistry of the representative products is unequivocally established from the single crystal X-ray structure analyses.
URI:	http://nopr.niscair.res.in/bitstream/123456789/20362/2/IJCA%2052A%288-9%29%201113-1127.pdf (http://nopr.niscair.res.in/bitstream/123456789/20362/2/IJCA%2052A%288-9%29%201113-1127.pdf) http://hdl.handle.net/123456789/2846 (http://hdl.handle.net/123456789/2846)
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