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Title:	Regio- and Diastereoselective Cycloaddition of Azomethine Ylides with Benzyldenemalononitrile: Assembly of a New Set of Multisubstituted 4,4-Dicyanopyrrolidine-2-carboxylate and Nornicotine Scaffolds
Authors:	Rajkumar, V. (/jspui/browse?type=author&value=Rajkumar%2C+V.) Babu, S.A. (/jspui/browse?type=author&value=Babu%2C+S.A.)
Keywords:	1,3-Dipolar cycloaddition Regio- and diastereoselective Pyrrolidine Regioselectivity Stereoselective synthesis
Issue Date:	2014
Publisher:	Georg Thieme Verlag
Citation:	Synlett, 25(18), pp.2629-2635.
Abstract:	Regio- and diastereoselective 1,3-dipolar cycloaddition reaction of azomethine ylides derived from N-benzyldeneiminoglycinates in the presence of catalytic quantities of silver salts with benzyldenemalononitriles (Knöevenagel adducts) is reported. The reaction of azomethine ylides with benzyldenemalononitriles gave a new class of 3,5-aryl/heteroaryl-substituted 4,4-dicyanopyrrolidine-2-carboxylate (proline) and nornicotine scaffolds having three stereocenters, with very good diastereoselectivity. The stereochemistry of representative major diastereomers was confirmed by single crystal X-ray structure analyses.
URI:	<a href="https://www.thieme-connect.com/products/ejournals/abstract/10.1055/s-0034-1379019">https://www.thieme-connect.com/products/ejournals/abstract/10.1055/s-0034-1379019</a> ( <a href="https://www.thieme-connect.com/products/ejournals/abstract/10.1055/s-0034-1379019">https://www.thieme-connect.com/products/ejournals/abstract/10.1055/s-0034-1379019</a> ) <a href="http://hdl.handle.net/123456789/2864">http://hdl.handle.net/123456789/2864</a> ( <a href="http://hdl.handle.net/123456789/2864">http://hdl.handle.net/123456789/2864</a> )
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