SL-97. Medium-sized Rings

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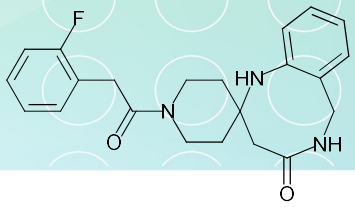
Medium-sized rings are very interesting class of molecular frameworks that can be found in many bioactive natural products and clinical candidates [1]. Synthetic medium-sized scaffolds are underrepresented in commercial screening collections due to limited arsenal of convenient methods of their synthesis. Several efficient synthetic methods for the preparation of medium-sized rings have been reported: lactonization, lactamization, and ring-closing metathesis. However, conventional ring closing methods have their significant limitations.

Rearrangements and ring expansion reactions can introduce additional scaffold diversity and are compatible with many functional groups. A Cu-catalyzed coupling of β-lactam substrates with aryl bromides is a simple and convenient method for the preparation of 8- and 9-membered ring systems that constitute this library [2].



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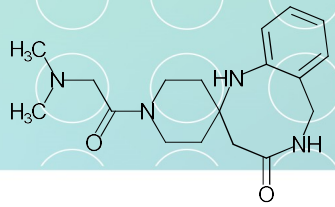

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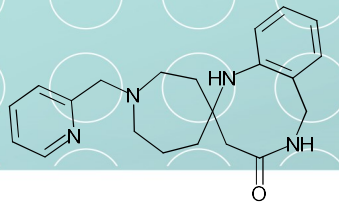

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Formats	Supplementary Information
80 compounds per plate 0.1 mg; 1 mg; 2 mg dry film/powder 0.1 µmol; 1 µmol DMSO solutions	SL#97_Medium_sized_Heterocycles_8_atoms.sdf

References:

1. *RSC Adv.*, 2014, 4, 43241-43257, doi: 10.1039/C4RA07434C.
2. *J Am Chem Soc*. 2004 Mar 24;126(11):3529-33.

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