DOI: 10.1002/chin.201332118

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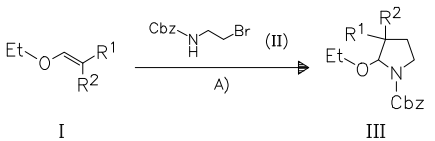
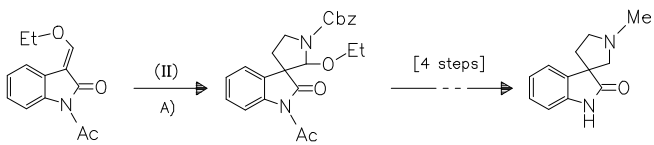
Tandem Aza-Michael/Spiro-Ring Closure Sequence: Access to a Versatile Scaffold and Total Synthesis of (±)-Coerulescine. — A simple protocol is presented for the tandem reaction between Michael acceptors (I) and carbamate (II) to yield pyrrolidine derivatives. The method is applied to the synthesis of spiro compound (V), a key precursor of racemic coerulescine (VI). — (GOERMEN, M.; LE GOFF, R.; LAWSON, A. M.; DAICH, A.; COMESSE*, S.; Tetrahedron Lett. 54 (2013) 17, 2174-2176, http://dx.doi.org/10.1016/j.tetlet.2013.02.047 ; UFR Sci. & Tech., Univ. Le Havre, F-76058 Le Havre, Fr.; Eng.) — Mais



I III

a	R^1, R^2: —CO—O—Et	80%
b	R^1, R^2: —CN	81%
c	R^1, R^2: —CO—Ph	57%
d	R^1: —CO—O—Et ; R^2: —CN	64% (>95:5 m.d.)
e	R^1: —SO_2—Ph ; R^2: —CN	98% (>95:5 m.d.)

A): NaH, THF, 25°C



IV V 83% VI