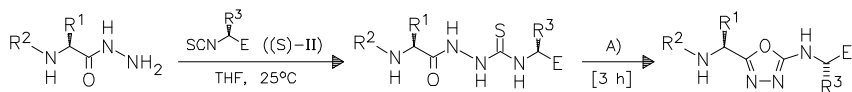


Peptides
U 0400

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A Facile Synthesis of N-Z/Boc-Protected 1,3,4-Oxadiazole-Based Peptidomimetics Employing Peptidyl Thiosemicarbazides. — A convenient protocol is presented for the cyclization of dipeptidyl thiosemicarbazides (III). It is extended to the preparation of analogous peptidomimetics of type (VI). — (LAMANI, R. S.; NAGENDRA, G.; SURESHBABU*, V. V.; *Tetrahedron Lett.* 51 (2010) 36, 4705-4709, DOI:10.1016/j.tetlet.2010.07.004; Dep. Stud. Chem., Cent. Coll., Bangalore Univ., Bangalore 560 001, India; Eng.) — Mais



(S)-I

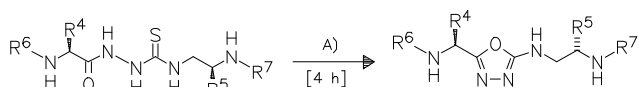
III*

IV*

a R ¹ : -Me; R ² : -Boc; R ³ : -iBu	75%
b R ¹ : -CH ₂ -CO-O-Bn; R ² : -Boc; R ³ : -Ph	74%
c R ¹ : -CH ₂ -Ph; R ² : -Cbz; R ³ : -Me	88%
d R ¹ : -(CH ₂) ₂ -S-Me; R ² : -Cbz; R ³ : -iPr	76%
e R ¹ : -iPr; R ² : -Cbz; R ³ : -CH ₂ -Ph	69%

a	80%
b	68%
c	84%
d	68%
e	78%

E: -CO-O-Me A): TosCl, Py, THF, reflux



V*

VI*

a R ⁴ : -Me; R ⁵ : -iPr; R ⁶ : -Boc; R ⁷ : -Cbz	72%
b R ⁴ : -iBu; R ⁵ : -CH ₂ -Ph; R ⁶ : -Boc; R ⁷ : -Cbz	69%
c R ⁴ : -CH ₂ -Ph; R ⁵ : -iPr; R ⁶ : -Cbz; R ⁷ : -Boc	74%