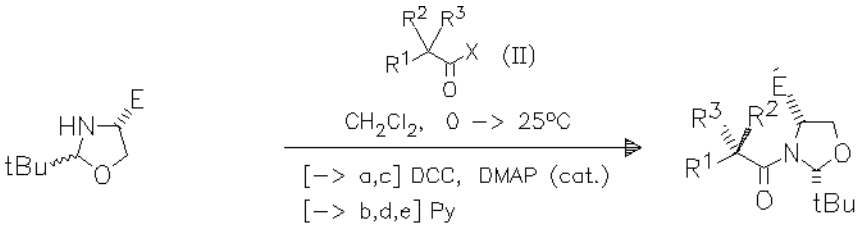
oxazole derivatives
R 0220
21 - 112

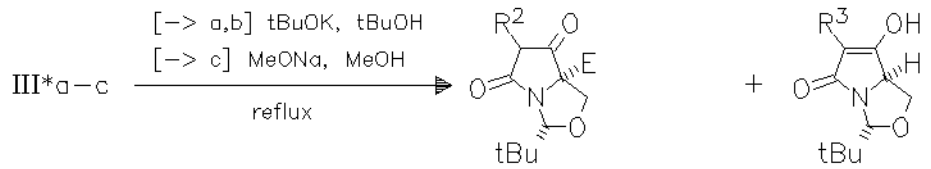
Regioselective Dieckmann Cyclizations Leading to Enantiopure Highly Functionalized Tetramic Acid Derivatives. — Regioselective Dieckmann cyclizations of N-acyloxazolidines (III) derived from L-serine give substituted tetramic acids in high yields and enantioselectivity. The products are easily deprotected under mild conditions to give hydroxymethyltetramic acids [cf. (VI), (VII)]. — (ANDREWS, M. D.; BREWSTER, A. G.; CRAPNELL, K. M.; IBBETT, A. J.; JONES, T.; MOLONEY, M. G.; PROUT, K.; WATKIN, D.; J. Chem. Soc., Perkin Trans. 1 [old] (1998) 2, 223-235; Dyson Perrins Lab., Oxford Cent. Mol. Sci., Oxford Univ., Oxford OX1 3QY, UK; EN)



I* (1:1 m.d.) III*

a	R^1, R^2: —H ; R^3: —CO—O—Et ; X: —OH	88% (77% d.e.)
b	R^1: —H ; R^2: —Me ; R^3: —CO—O—Et ; X: —Cl	94% (44% d.e.)
c	R^1, R^2: —H ; R^3: —Ph ; X: —Cl	90%
d	R^1, R^2: —H ; R^3: —CN ; X: —OH	82%
e	R^1, R^3: —Ph ; R^2: —H ; X: —Cl	60%

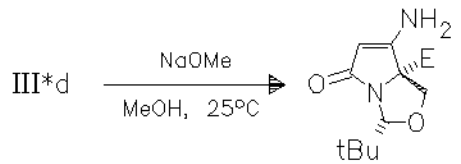
E: —CO—O—Me



	(+)—IV*	(+)—V*
a	73%	12%
b	96%	0%
c	0%	22%

VI* 87% VII* 86%

A): 2% aq. HCl, HS—$(CH_2)_3$—SH, CF_3—CH_2—OH, 25°C



(+)—VIII* 82%