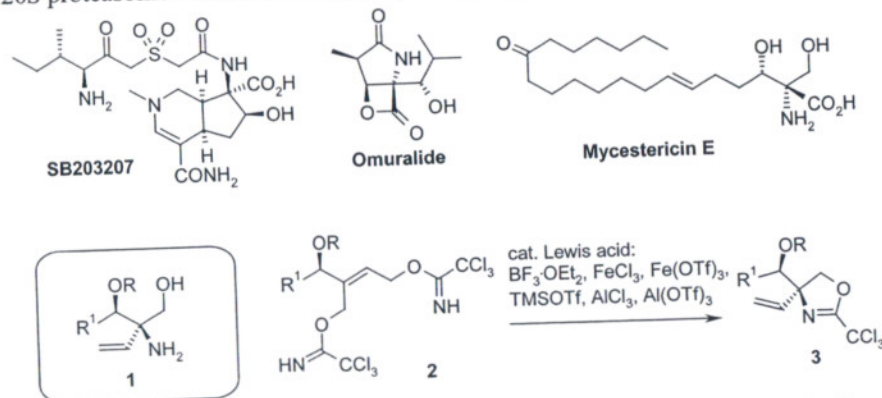


STEREOSELECTIVE SYNTHESIS OF
2-VINYLSERINOL DERIVATIVES

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2-Vinylserinol derivatives **1** are structural elements of a number of biologically active natural products including isoleucyl tRNA synthetase inhibitor **SB203207**, 20S proteasome inhibitor **omuralide**, and sphingolipid **mycestericin E**.



Herein we report novel stereoselective synthesis of protected 2-vinylserinols – oxazolines **3** by Lewis acid catalyzed cyclization of chiral bis-trichloroacetimidates **2**. The best diastereoselectivity (d.r. 99:1) for oxazoline **3** formation was achieved with *O*-TBS protected substrate (R¹=*i*Pr) and AlCl₃ as a catalyst.

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