

Enantioselective Syntheses of Ring-C Precursors of Vitamin B₁₂. Substrate Precursor

Tassa 3min



the starred carbon (*) is a chiral center that might be introduced in enantioselective fashion (*substrate control*).^{2b}

Recently we described preliminary studies employing

HMPA at - 78 °C. Upon warming to room temperature the resultant ketene silyl enolate (not shown) underwent smooth rearrangement, affording a 74% yield of alkene acid **22** after 1 h at 25°. Interestingly, **22** was accompanied by varying amounts of alkyne acid **23**, which increased to 71% after standing 96 h. Alternatively, **23** was obtained in 97% yield



