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Stereocontrolled Total Synthesis of Lipoxins A5 and B5*

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Stereocontrolled total syntheses of the presumed structure of the newly reported lipoxins A5 and B5 are reported. The syntheses involve Pd(0)-Cu(I) catalyzed coupling of terminal acetylenes with vinylhalides to construct the eicosanoid skeleton and Lindlar hydrogenation to secure the Z olefins stereoselectively. This synthetic strategy was recently established in our laboratory as a general approach to the linear eicosanoids.

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