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(71) Applicant: VIVUS, INCORPORATED [US/US]; Suite 200, 545 Middlefield Road, Menlo Park, CA 94025 (US).

(72) Inventors: TRAMPOTA, Miroslav; 56 Old Indian Road, West Orange, NJ 07052 (US). ZAK, Bohumil; 4 Highland Place, Maplewood, NJ 07040 (US).

(74) Agents: REED, Dianne, E. et al.; Reed & Robins, Suite 200, 285 Hamilton Avenue, Palo Alto, CA 94301 (US).

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(54) Title: PROCESS FOR PREPARING PROSTAGLANDIN E1, E2 AND ANALOGS THEREOF USING FURYL COPPER REAGENTS

(57) Abstract

A process for synthesizing prostaglandin E₁, E₂ and derivatives thereof is provided. The process is a "one-pot" method in which 2-furyllithium, copper cyanide, a lower alkyl lithium reagent and either an (E)-alkenylstannane or a halogenide are combined with cyclopentenone (II), in which A, R⁶ and R⁷ are as defined herein. The reaction gives rise to the desired prostaglandin product in yields of 80 % or higher.

