polycarboxylic acids and esters (benzene compounds)

Q 0425

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An Efficient and Cost-Effective Synthesis of 3-Ethoxy-4-ethoxycarbonyl-phenylacetic Acid: A Key Acid Synthon of Repaglinide (VI). — A new method for the synthesis of (V) acid is developed starting from 2-hydroxy-4-methylbenzoic acid. Deprotonation of (III) is accomplished with in situ generated LDA followed by subsequent reaction of the carbanion with carbon dioxide. — (SALMAN, MOHAMMAD; BABU, SURESH J.; RAY, PURNA C.; BISWAS, SUJOY; KUMAR, NARESH; Org. Process Res. Dev. 6 (2002) 2, 184-186; Chem. Res. Div., Ranbaxy Lab. Ltd., Gurgaon 122 001, India; EN)

III 
$$\xrightarrow{1. \text{LDA, THF, } -30^{\circ}\text{C}}$$
  $\xrightarrow{\text{HO}}$   $\xrightarrow{\text{O}-\text{Et}}$   $\xrightarrow{\text{NMe}}$   $\xrightarrow{\text{O}}$   $\xrightarrow{\text{NHe}}$   $\xrightarrow{\text{O}-\text{Et}}$   $\xrightarrow{\text{NHe}}$   $\xrightarrow{\text{NHe}}$   $\xrightarrow{\text{NHe}}$   $\xrightarrow{\text{O}-\text{Et}}$   $\xrightarrow{\text{NHe}}$   $\xrightarrow{\text{NHe}}$   $\xrightarrow{\text{NHe}}$   $\xrightarrow{\text{O}-\text{Et}}$   $\xrightarrow{\text{NHe}}$   $\xrightarrow{\text{NHe}}$   $\xrightarrow{\text{NHe}}$   $\xrightarrow{\text{NHe}}$   $\xrightarrow{\text{NHe}}$   $\xrightarrow{\text{O}-\text{Et}}$   $\xrightarrow{\text{NHe}}$   $\xrightarrow{\text{N$