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Title: Pentacarbomethoxycyclopentadiene Mediated one pot Synthesis of Indanone Derivatives from para-quinone Methides

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Abstract:

Pentacarbomethoxycyclopentadiene (PCCP) has been utilized as a non-covalent Br Ø nsted acid for the intramolecular cyclization of alkenylated para-Quinone Methides to form indanone based product. This transformation is tolerant to a variety of functional groups and occurs at mild conditions. This methodology provides an easy and straightforward access to a set of indanones in moderate to good yield which are present as a core in multiple natural products like

isopaucifloral (F), quadrangularin A etc.

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