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# Chemoenzymatic total synthesis of cryptocaryalactone natural products

<u>Yarram Narasimha Reddy</u> <sup>a</sup> ♀ ☒ . <u>Tenkayala Navya Kumari</u> <sup>a b</sup>, <u>Pradeepkumar Thota</u> <sup>a</sup> . <u>Perla lyothi</u> <sup>c</sup>. <u>Ajay Kumar Gupta</u> <sup>b</sup>

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#### Abstract

A new chemoenzymatic route for the preparation of cryptocaryalactones natural products using a kinetic resolution process as the key step is described. Novozyme-435 catalyzed <u>hydrolysis</u> of the prochiral ( $\pm$ )-monoester 7 afforded the precursors of cryptocaryalactones with high enantiomeric excess and excellent yields. The compounds (4S,6S)-7 and (4R,6R)-7 were converted to ( $\pm$ )-(6R,2'S)-cryptocaryalactone (1) and ( $\pm$ )-(6S,2'R)-cryptocaryalactone (2), respectively by employing Wittig-olefination, <u>lactonization</u> and acylation reactions.

### Graphical abstract

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