

Synthesis of Cinnamic Acid and its Antimicrobial Activity: A Review

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Abstract: *Cinnamic acid, a naturally occurring aromatic carboxylic acid, has garnered significant attention due to its diverse biological activities, including potent antimicrobial properties. This review delves into the synthesis of cinnamic acid, its structural elucidation, and its mechanism of action against various microorganisms. The synthesis methods, including traditional and modern approaches, are discussed in detail. Additionally, the review explores the antimicrobial activity of cinnamic acid and its derivatives, highlighting their potential applications in various fields such as pharmaceuticals and agriculture.*

Keywords: Cinnamic acid, synthesis, antimicrobial activity, mechanism of action, natural product