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# Enoyl Acyl Carrier Protein Reductase Inhibitors: An Emerging Target

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**Abstract :** The evolution of drug resistant strains of important human pathogens has created an urgent necessity to find new targets and novel anti-infective agents such as anti-mycobacterial, anti-malarial and anti-fungal agents. Enoyl acyl carrier protein reductase is one of the most upcoming powerful target. Enoyl ACP reductase enzyme plays most determinant role in Fatty acid synthase II (FAS II) cycle. This review deals with the development made in the design of enoyl acyl carrier protein reductase inhibitors and the role played by 3D structure of the enzyme in drug design process. This review summarized on the recent advances made in the current understanding of enoyl acyl carrier protein reductase (ENR). The review focuses its potential as a promising drug target for future drug development against most anti-infective diseases.

**Keywords:** Fatty acid synthesis, Enoyl acyl carrier protein reductase, Anti-tubercular, Anti-malarial, Anti-fungal.

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