

Basic Concepts and Application of Prodrug Design

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Abstract: *Prodrug are bio reversible derivatives of drug molecules that undergo an enzymatic and or chemical transformation in vivo to release the active parent drug ,which can then exert desired pharmacological effect this approach has several Advantages over conventional drug administration Prodrug designs is a widely known molecular modification strategy that aims to optimize the physicochemical and pharmacological properties of drug to improve their solubility and pharmacokinetic features and decrease their toxicity .this review aims to describe recent advances in the improvements of solubility via the prodrug approach the main chemical carries and examples of successful strategies will be discussed, highlighting the advance of this field in the last ten years*

Keywords: Solubility, water soluble prodrug, prodrug