



## Application of Peptide-Based Prodrug Chemistry in Drug Development

By Arnab De

Springer. Paperback. Condition: New. 75 pages. Dimensions: 8.8in. x 6.1in. x 0.3in. Macromolecular (specifically peptide-based) drugs could potentially be highly effective medicines. However they have a relatively short duration of action and variable therapeutic index. An example of such a peptide is Glucagon-like Peptide I which could potentially be used as a revolutionary drug for diabetes. This is because it stimulates insulin only when the blood glucose level is high thereby reducing the risk of hypoglycemia (a significant disadvantage of using insulin is that an insulin overdose is the single most potent cause of life-threatening hypoglycemia). However its short duration of action (half-life of 2 minutes in plasma) precludes its therapeutic use. In this volume, the use of novel therapeutics like GLP1 as an alternative to traditional insulin-based drugs in diabetes is described. Application of Peptide-Based Prodrug Chemistry in Drug Development elucidates the traditional concept of prodrugs as specialized non-toxic protective groups used in a transient manner to alter or to eliminate certain limiting properties in the parent small molecule (IUPAC definition). It goes on to provide insight into how prodrugs of peptides (with GLP1 as an example) could be appropriately used to extend the biological half life, broaden the therapeutic...

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