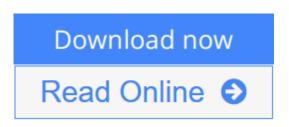


# Peptidomimetics in Organic and Medicinal Chemistry

By Antonio Guarna, Andrea Trabocchi



**Peptidomimetics in Organic and Medicinal Chemistry** By Antonio Guarna, Andrea Trabocchi

A peptidomimetic is a small protein-like chain designed to mimic a peptide with adjusted molecular properties such as enhanced stability or biological activity. It is a very powerful approach for the generation of small-molecule-based drugs as enzyme inhibitors or receptor ligands.

*Peptidomimetics in Organic and Medicinal Chemistry* outlines the concepts and synthetic strategies underlying the building of bioactive compounds of a peptidomimetic nature. Topics covered include the chemistry of unnatural amino acids, peptide- and scaffold-based peptidomimetics, amino acid-side chain isosteres, backbone isosteres, dipeptide isosteres, beta-turn peptidomimetics, proline-mimetics as turn inducers, cyclic scaffolds, amino acid surrogates, and scaffolds for combinatorial chemistry of peptidomimetics. Case studies in the hitto-lead process, such as the development of integrin ligands and thrombin inhibitors, illustrate the successful application of peptidomimetics in drug discovery.

**<u>Download</u>** Peptidomimetics in Organic and Medicinal Chemistry ...pdf

**<u>Read Online Peptidomimetics in Organic and Medicinal Chemist ...pdf</u>** 

# **Peptidomimetics in Organic and Medicinal Chemistry**

By Antonio Guarna, Andrea Trabocchi

### Peptidomimetics in Organic and Medicinal Chemistry By Antonio Guarna, Andrea Trabocchi

A peptidomimetic is a small protein-like chain designed to mimic a peptide with adjusted molecular properties such as enhanced stability or biological activity. It is a very powerful approach for the generation of small-molecule-based drugs as enzyme inhibitors or receptor ligands.

*Peptidomimetics in Organic and Medicinal Chemistry* outlines the concepts and synthetic strategies underlying the building of bioactive compounds of a peptidomimetic nature. Topics covered include the chemistry of unnatural amino acids, peptide- and scaffold-based peptidomimetics, amino acid-side chain isosteres, backbone isosteres, dipeptide isosteres, beta-turn peptidomimetics, proline-mimetics as turn inducers, cyclic scaffolds, amino acid surrogates, and scaffolds for combinatorial chemistry of peptidomimetics. Case studies in the hit-to-lead process, such as the development of integrin ligands and thrombin inhibitors, illustrate the successful application of peptidomimetics in drug discovery.

## Peptidomimetics in Organic and Medicinal Chemistry By Antonio Guarna, Andrea Trabocchi Bibliography

- Sales Rank: #3752705 in Books
- Published on: 2014-04-07
- Original language: English
- Number of items: 1
- Dimensions: 9.90" h x .90" w x 6.90" l, 1.42 pounds
- Binding: Hardcover
- 308 pages

**<u>Download</u>** Peptidomimetics in Organic and Medicinal Chemistry ...pdf

**Read Online** Peptidomimetics in Organic and Medicinal Chemist ...pdf

# Download and Read Free Online Peptidomimetics in Organic and Medicinal Chemistry By Antonio Guarna, Andrea Trabocchi

## **Editorial Review**

#### From the Back Cover

Biomedical research is constantly oriented towards the development of new therapeutics based on peptides and proteins. This broad and topical text describes the art to design and synthesize peptidomimetic compounds for drug discovery. In this approach, peptides and proteins are considered as hits for the discovery of other classes of compounds, named peptidomimetics, which are molecular scaffolds of different size, structure and functions, retaining the biological properties of the native peptides or proteins.

*Peptidomimetics in Organic and Medicinal Chemistry* is unique in the landscape of peptidomimetic science, by covering both fundamental and systematic descriptions of peptidomimetic synthesis and features, as well as their application in drug discovery. This book provides a comprehensive view of peptidomimetics and their classifi cation based on common structural features, and presents in depth discussions of the most successful synthetic approaches underlying the building of bioactive compounds of 'peptidomimetic nature', based on the structure of natural bioactive peptides. In addition, selected case studies in relevant biomedical areas illustrate the key role of peptidomimetics in drug development.

Extensively referenced and illustrated, *Peptidomimetics in Organic and Medicinal Chemistry* has been conceived for novice and expert researchers who currently are working in the field of organic and medicinal chemistry addressing drug discovery. It is also of interest for all the scientists in the field of chemical biology, systems biology and biotechnology.

About the Author

Andrea Trabocchi Department of Chemistry "Ugo Schiff", University of Florence, Italy

#### Antonio Guarna

Department of Chemistry "Ugo Schiff", University of Florence, Italy

## **Users Review**

#### From reader reviews:

#### **Michael Stein:**

The book Peptidomimetics in Organic and Medicinal Chemistry can give more knowledge and information about everything you want. Why then must we leave the great thing like a book Peptidomimetics in Organic and Medicinal Chemistry? Wide variety you have a different opinion about reserve. But one aim this book can give many facts for us. It is absolutely suitable. Right now, try to closer together with your book. Knowledge or info that you take for that, you could give for each other; you can share all of these. Book Peptidomimetics in Organic and Medicinal Chemistry has simple shape but the truth is know: it has great and big function for you. You can search the enormous world by wide open and read a reserve. So it is very wonderful.

#### **Renee Middleton:**

Here thing why this kind of Peptidomimetics in Organic and Medicinal Chemistry are different and dependable to be yours. First of all reading through a book is good nonetheless it depends in the content of the usb ports which is the content is as tasty as food or not. Peptidomimetics in Organic and Medicinal Chemistry giving you information deeper and different ways, you can find any book out there but there is no guide that similar with Peptidomimetics in Organic and Medicinal Chemistry. It gives you thrill studying journey, its open up your current eyes about the thing that will happened in the world which is might be can be happened around you. You can easily bring everywhere like in park your car, café, or even in your method home by train. If you are having difficulties in bringing the published book maybe the form of Peptidomimetics in Organic and Medicinal Chemistry in e-book can be your substitute.

#### **Harry Thomas:**

The guide untitled Peptidomimetics in Organic and Medicinal Chemistry is the guide that recommended to you to learn. You can see the quality of the guide content that will be shown to you. The language that author use to explained their way of doing something is easily to understand. The writer was did a lot of research when write the book, therefore the information that they share for your requirements is absolutely accurate. You also can get the e-book of Peptidomimetics in Organic and Medicinal Chemistry from the publisher to make you more enjoy free time.

#### **Peter Singleton:**

Spent a free time to be fun activity to complete! A lot of people spent their sparetime with their family, or their friends. Usually they undertaking activity like watching television, gonna beach, or picnic within the park. They actually doing ditto every week. Do you feel it? Would you like to something different to fill your free time/ holiday? Could be reading a book can be option to fill your free time/ holiday. The first thing that you ask may be what kinds of guide that you should read. If you want to test look for book, may be the publication untitled Peptidomimetics in Organic and Medicinal Chemistry can be fine book to read. May be it might be best activity to you.

Download and Read Online Peptidomimetics in Organic and Medicinal Chemistry By Antonio Guarna, Andrea Trabocchi #YFDN5V2B80W

# Read Peptidomimetics in Organic and Medicinal Chemistry By Antonio Guarna, Andrea Trabocchi for online ebook

Peptidomimetics in Organic and Medicinal Chemistry By Antonio Guarna, Andrea Trabocchi Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Peptidomimetics in Organic and Medicinal Chemistry By Antonio Guarna, Andrea Trabocchi books to read online.

# Online Peptidomimetics in Organic and Medicinal Chemistry By Antonio Guarna, Andrea Trabocchi ebook PDF download

Peptidomimetics in Organic and Medicinal Chemistry By Antonio Guarna, Andrea Trabocchi Doc

Peptidomimetics in Organic and Medicinal Chemistry By Antonio Guarna, Andrea Trabocchi Mobipocket

Peptidomimetics in Organic and Medicinal Chemistry By Antonio Guarna, Andrea Trabocchi EPub

YFDN5V2B80W: Peptidomimetics in Organic and Medicinal Chemistry By Antonio Guarna, Andrea Trabocchi