Glycogen Synthase Kinase 3 (GSK–3) and Its Inhibitors. Drug Discovery and Development. Wiley Series in Drug Discovery and Development

Description: The new potential of an "old" enzyme

Glycogen Synthase Kinase 3 (GSK–3) was discovered about twenty-five years ago but had garnered little interest until recently. Now many researchers believe that there is much potential for this "old" enzyme and are re-examining its biological characteristics. GSK–3 and its inhibitors could lead to effective treatments for neurogenerative disorders, type II diabetes, depression and bipolar disorder, and some forms of cancer. This book explores the nature of this promising enzyme, providing a thorough introduction and discussion, and mentions the birth of several chemical families of GSK–3 inhibitors with varying selectivity.

Specific topics relating to GSK–3 covered in this book include:

- Cellular functions
- Neuronal cell biology
- Crystal structures
- Kinase-kinase and site-site interactions in the phosphorylation of tau
- Therapeutic target in human pathology
- Role in stem cells
- Physiology studies
- Development and therapeutic potential of GSK–3 inhibitors

Gathering and systematically analyzing relevant and up-to-date information about GSK–3 and its known inhibitors, this book will aid researchers interested in drug design and development, especially those directly involved in the fascinating world of GSK–3.

Contents:

Foreword: The Origins of GSK–3.
Preface.
Acknowledgments.
Contributors.
Abbreviations.

PART I: CELLULAR FUNCTIONS OF GSK–3.

PART II: GSK3 AS A THERAPEUTIC TARGET IN HUMAN PATHOLOGY.
6. GSK–3, a Key Player in Alzheimer's Disease.
8. GSK3 and Stem Cells.

PART III: GSK–3 INHIBITORS: DEVELOPMENT AND THERAPEUTIC POTENTIAL.
12. Lithium, the Seminal GSK3 Inhibitor.
13. Inhibition of GSK3 as Therapeutic Strategy in Disease: Efficacy of AR-A014418.
14. TDZD s: Selective And ATP Non Competitive Glycogen Synthase Kinase–3 Inhibitors.
15. 3–Amino Pyrazoles as Potent and Selective Glycogen Synthase (GSK–3) Inhibitors.
Index.

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