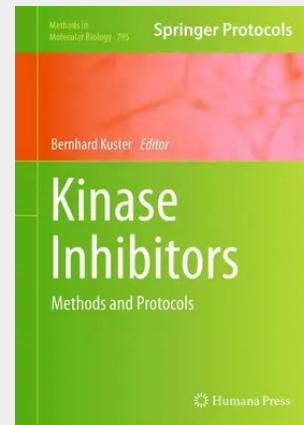


Kinase Inhibitors

Methods and Protocols

Protein and lipid kinases are often the master regulators of cell signaling in eukaryotic systems. The human genome codes for more than 500 of these enzymes and their misregulation has been shown to be involved in the onset and progression of many diseases including cancer and inflammation. Therefore, small molecule kinase inhibitors have become important research tools for the elucidation of the many biological roles of kinases and their mechanisms of action. Kinase inhibitors thus also contribute significantly to the drug pipelines of the pharmaceutical and biotechnology industries and to the growing need to treat cancer and inflammation. In *Kinase Inhibitors: Methods and Protocols*, experts in kinase biology, drug discovery, and clinical research present a series of exemplary methods that can be used to address the many challenges facing scientists in the discovery and development of kinase inhibitors both for research and clinical use. Written in the highly successful *Methods in Molecular Biology*™ series format, chapters contain introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and notes on troubleshooting and avoiding known pitfalls.

Authoritative and accessible, *Kinase Inhibitors: Methods and Protocols* aims to provide scientists with modern and relevant methods to accelerate or strengthen their research and drug discovery programs through the utilization of these vital regulators.



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