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Nota di contenuto Glycogen synthase kinase 3: an introductory synopsis -- Glycogen

synthase kinase-3[beta] (GSK-3[beta]) a key signaling enzyme: a developmental neurobiological perspective -- Role of GSK-3/Shaggy in neuronal cell biology -- The crystal structures of glycogen synthase

kinase 3 -- Kinase-kinase and site-site interactions in the

phosphorylation of tau by GSK-3 -- GSK-3, a key player in Alzheimer's disease -- Glycogen synthase kinase 3: a target for novel mood disorder treatments -- GSK-3 and stem cells -- Glycogen synthase kinase 3: role in pour

kinase 3: role in neurodegeneration and neuroprotection --Protein kinase assays for drug discovery -- Animal models with modified expression of GSK-3 for the study of its physiology and of its implications in human pathologies -- Lithium, the seminal GSK-3 inhibitor -- Inhibition of GSK-3 as therapeutic strategy in disease: efficacy of AR-A014418 -- TDZD's: selective and ATP noncompetitive

Sommario/riassunto

glycogen synthase kinase 3 inhibitors -- 3-amino pyrazoles as potent and selective glycogen kinase synthase (GSK-3) inhibitors -- Marine compounds as a new source for glycogen synthase kinase 3 inhibitors.

Many researchers believe that 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 provides a thorough introduction to GSK-3, presents up-to-date information, and mentions the birth of several chemical families of GSK-3 inhibitors with varying selectivity. It's a great reference for researchers in drug design and development.