



**Figure 1.** Schematic diagram of the *CaMKII* and *CaMKI* signaling pathway. *CaMKII* is activated by  $Ca^{2+}$  and calmodulin, leading to its phosphorylation. This phosphorylated *CaMKII* then phosphorylates *CaMKI*, leading to its phosphorylation. Activated *CaMKI* then phosphorylates *CaMKII*, leading to its inactivation. Additionally, *CaMKII* and *CaMKI* can phosphorylate each other, leading to their respective inactivation.