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- **Cover illustration:** Schematic of one of the paired hexameric rings of the calcium/calmodulin-dependent protein kinase II holoenzyme, which assembles via the association domains (green) from each subunit. Catalytic domains (blue) catalyse basal intrasubunit autophosphorylation at Thr³⁰⁵ (thin arrows) in the regulatory domain (pink) that blocks binding of Ca²⁺/calmodulin (CaM; purple). Ca²⁺/calmodulin-dependent inter-subunit autophosphorylation at Thr²⁸⁶ (fat arrows) enhances the affinity for calmodulin, generates constitutive kinase activity, and regulates the association with other cellular proteins. For further details, see Colbran (2004) *Biochem. J.* **378**, 1–16.

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