
Recombinant Human CAMK2A / CAMKA Protein (GST tag)**Cat.NO.: TP08424**

3th Edition

Synonyms:CAMKA

Description:Ca²⁺/calmodulin-dependent protein kinase2A (CAMK2A) belongs to the serine/threonine protein kinase family and, together with other 28 different isoforms, belongs to the Ca²⁺/ calmodulin-dependent protein kinase subfamily. CaM kinase γ is thought to be an important mediator of learning and memory and is also necessary for Ca²⁺ homeostasis and reuptake in cardiomyocytes chloride transport in epithelia, positive T-cell selection, and CD8 T-cell activation. CAMKIIA is one of the major forms of CAMKII. It has been found to play a critical role in sustaining activation of CAMKII at the postsynaptic density. Studies have found that knockout mice without CAMKIIA demonstrate a low frequency of LTP. Additionally, these mice do not form persistent, stable place cells in the hippocampus.

Form:PBS**Molecular Weight:**80.3 kDa**Sequences:**Met 1-His 478**Purity:**> 95% by HPLC**Concentration:****Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.