# CAMKIV/CAMK4 Protein, Human (HEK293, GST)

| | |
|---|---|
| **Cat. No.:** | HY-P75458 |
| **Synonyms:** | Calcium/calmodulin-dependent protein kinase type IV; CaMK IV; CAMK4; CAMK; CAMK-GR |
| **Species:** | Human |
| **Source:** | HEK293 |
| **Accession:** | NP_001735.1 (M1-Y473) |
| **Gene ID:** | 814 |
| **Molecular Weight:** | Approximately 100 kDa |

## PROPERTIES

| | |
|---|---|
| **Biological Activity** | The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet. |
| **Appearance** | Lyophilized powder. |
| **Formulation** | Lyophilized from a 0.2 μm filtered solution of 50 mM Tris, 100 mM NaCl, 0.5 mM PMSF, pH 8.0. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. |
| **Endotoxin Level** | <1 EU/μg, determined by LAL method. |
| **Reconsititution** | It is not recommended to reconstitute to a concentration less than 100 μg/mL in dd$H_2O$. |
| **Storage & Stability** | Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage. |
| **Shipping** | Room temperature in continental US; may vary elsewhere. |

## DESCRIPTION

| | |
|---|---|
| **Background** | The CAMKIV/CAMK4 protein, belonging to the serine/threonine protein kinase family and the Ca(2+)/calmodulin-dependent protein kinase subfamily, is a versatile enzyme with a restricted tissue distribution. It has been implicated in transcriptional regulation in diverse cell types, including lymphocytes, neurons, and male germ cells. With broad expression observed in various tissues, the CAMKIV/CAMK4 protein is notably prevalent in the brain (RPKM 7.0), lymph nodes (RPKM 3.7), and 21 other tissues, underscoring its potential involvement in diverse physiological processes across multiple organs. |



Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA