

CAMK1 Protein, Human (HEK293, His)

Cat. No.:	HY-P7714
Synonyms:	rHuCAMK1, His; Calcium/Calmodulin-Dependent Protein Kinase Type 1; CaM Kinase I; CaMKI-Alpha; CAMK1
Species:	Human
Source:	HEK293
Accession:	Q14012 (M1-L370)
Gene ID:	8536
Molecular Weight:	Approximately 40.0 kDa

PROPERTIES

AA Sequence	<pre> MLGAVEGPRW KQAEDIRDIY DFRDVLGTGA FSEVILAEDK RTQKLVAIKC IAKEALEGKE GSMENEIAVL HKIKHPNIVA LDDIYESGGH LYLIMQLVSG GELFDRIVEK GFYTERDASR LIFQVLDAVK YLHDLGIVHR DLKPENLLYY SLDEDSKIMI SDFGLSKMED PGSVLSTACG TPGYVAPEVL AQKPYSKAVD CWSIGVIAAYI LLCGYPPFYD ENDAKLFEQI LKAEYEFDSP YWDDISDSAK DFIRHLM EK D PEKRFTCEQA LQHPW IAGDT ALDKNIHQSV SEQIKKNFAK SKWKQAFNAT AVVRHMRKLQ LGTSEQEGGQQ TASHGELLTP VAGGPAAGCC CRDCCVEPGT ELSP T LPHQL HHHHHH </pre>
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 20 mM PB, 150 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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

Calcium/calmodulin-dependent protein kinase (CAMKs) can control a wide range of cancer-related functions in multiple tumour types. The PPI network suggested that CALM1, CALM3, CREB1, CALM2, SYN1, NOS3, ATF1, GAPDH, PPM1F and FBXL12 were important significant genes associated with CAMK1^[1].

REFERENCES

[1]. Yangyang Lei, et al. Expression of CAMK1 and its association with clinicopathologic characteristics in pancreatic cancer. J Cell Mol Med. 2021 Jan;25(2):1198-1206.

Caution: Product has not been fully validated for medical applications. For research use only.

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