

## Product datasheet for **TP762573**

### **CAMK2B (NM\_001220) Human Recombinant Protein**

#### **Product data:**

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Purified recombinant protein of Human calcium/calmodulin-dependent protein kinase II beta (CAMK2B), transcript variant 1, full length, with N-terminal GST and C-terminal His tag, expressed in E.coli, 50ug
<b>Species:</b>	Human
<b>Expression Host:</b>	E. coli
<b>Expression cDNA Clone or AA Sequence:</b>	A DNA sequence encoding the region full length of CAMK2B
<b>Tag:</b>	N-GST and C-HIS
<b>Predicted MW:</b>	60.4 kDa
<b>Concentration:</b>	>0.05 µg/µL as determined by microplate BCA method
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	50 mM Tris-HCl, pH 8.0, 8 M urea
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C after receiving vials.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_001211</a>
<b>Locus ID:</b>	816
<b>UniProt ID:</b>	<a href="#">Q13554</a> , <a href="#">A4D2I9</a>
<b>RefSeq Size:</b>	1825
<b>Cytogenetics:</b>	7p13
<b>RefSeq ORF:</b>	1626
<b>Synonyms:</b>	CAM2; CAMK2; CAMKB; CaMKIIbeta; MRD54



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**Summary:**

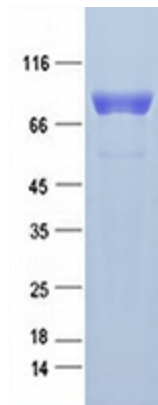
The product of this gene belongs to the serine/threonine protein kinase family and to the Ca(2+)/calmodulin-dependent protein kinase subfamily. Calcium signaling is crucial for several aspects of plasticity at glutamatergic synapses. In mammalian cells, the enzyme is composed of four different chains: alpha, beta, gamma, and delta. The product of this gene is a beta chain. It is possible that distinct isoforms of this chain have different cellular localizations and interact differently with calmodulin. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2014]

**Protein Families:**

Druggable Genome, Protein Kinase

**Protein Pathways:**

Calcium signaling pathway, ErbB signaling pathway, Glioma, GnRH signaling pathway, Long-term potentiation, Melanogenesis, Neurotrophin signaling pathway, Olfactory transduction, Oocyte meiosis, Wnt signaling pathway

**Product images:**

Purified recombinant protein CAMK2B was analyzed by SDS-PAGE gel and Coomassie Blue Staining.