

## Product datasheet for **TP720912M**

### **CAMK2B (NM\_172081) 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 5
<b>Species:</b>	Human
<b>Expression Host:</b>	E. coli
<b>Expression cDNA Clone or AA Sequence:</b>	Met1-Gln503
<b>Tag:</b>	C-His
<b>Predicted MW:</b>	57.4 kDa
<b>Purity:</b>	>95% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	Provided lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaCl
<b>Endotoxin:</b>	Endotoxin level is < 0.1 ng/µg of protein (< 1 EU/µg)
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for at least 3 months from date of receipt under proper storage and handling conditions.
<b>RefSeq:</b>	<a href="#">NP_742078</a>
<b>Locus ID:</b>	816
<b>UniProt ID:</b>	<a href="#">Q13554</a>
<b>RefSeq Size:</b>	4097
<b>Cytogenetics:</b>	7p13
<b>RefSeq ORF:</b>	1509
<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