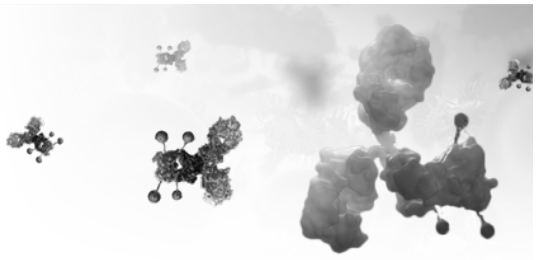

Rat CACNA1E peptide (DAG-P0316)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	This gene encodes an integral membrane protein that belongs to the calcium channel alpha-1 subunits family. Voltage-sensitive calcium channels mediate the entry of calcium ions into excitable cells and are also involved in a variety of calcium-dependent processes. Voltage-dependent calcium channels are multi-subunit complexes, comprised of alpha-1, alpha-2, beta and delta subunits in a 1:1:1:1 ratio. The isoform alpha-1E gives rise to R-type calcium currents and belongs to the high-voltage activated group. Calcium channels containing the alpha-1E subunit may be involved in the modulation of neuronal firing patterns, an important component of information processing. [provided by RefSeq, Jul 2008]
Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	Cacna1e calcium channel, voltage-dependent, R type, alpha 1E subunit [Mus musculus (house mouse)]
Official Symbol	CACNA1E
Synonyms	CACNA1E; calcium channel, voltage-dependent, R type, alpha 1E subunit; BII; Cach6; Cav2.3; Cchra1; alpha1E; Cacnl1a6; A430040I15; voltage-dependent R-type calcium channel subunit alpha-1E; brain calcium channel II; voltage-gated calcium channel subunit alpha Cav2.3; calcium channel, L type, alpha-1 polypeptide, isoform 6; calcium channel, voltage-dependent, L

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	type, alpha 1E subunit;
Entrez Gene ID	12290
mRNA Refseq	NM_009782.3
Protein Refseq	NP_033912.2
Chromosome Location	1 G3; 1 66.14 cM
Pathway	Calcium Regulation in the Cardiac Cell, organism-specific biosystem; Calcium signaling pathway, organism-specific biosystem; Calcium signaling pathway, conserved biosystem; Depolarization of the Presynaptic Terminal Triggers the Opening of Calcium Channels, organism-specific biosystem; Integration of energy metabolism, organism-specific biosystem; MAPK signaling pathway, organism-specific biosystem; MAPK signaling pathway, conserved biosystem; Metabolism, organism-specific biosystem; Neuronal Sy
Function	calcium channel activity; calcium ion binding; high voltage-gated calcium channel activity; ion channel activity; metal ion binding; protein N-terminus binding; voltage-gated calcium channel activity; voltage-gated calcium channel activity; voltage-gated

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