Recombinant Human CACNA1E Protein, GST-Tagged

Cat. No. CACNA1E-0265H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CACNA1E partial ORF (NP_000712, 1901 a.a. - 1999 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	Voltage-dependent calcium channels are multisubunit complexes consisting of alpha-1, alpha-2, beta, and delta subunits in a 1:1:1:1 ratio. These channels mediate the entry of calcium ions into excitable cells, and are also involved in a variety of calcium-dependent processes, including muscle contraction, hormone or neurotransmitter release, gene expression, cell motility, cell division and cell death. This gene encodes the alpha-1E subunit of the R-type calcium channels, which belong to the 'high-voltage activated' group that maybe involved in the modulation of firing patterns of neurons important for information processing. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Apr 2011]
Molecular Mass	36.63 kDa
AA Sequence	RMEPSSLPQEIIANAKALPYLQQDPVSGLSGRSGYPSMSPLSPQDIFQLACMDPADD GQFQERQSLVVTDPSSMRRSFSTIRDKRSNSSWLEEFSMERS
Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein)

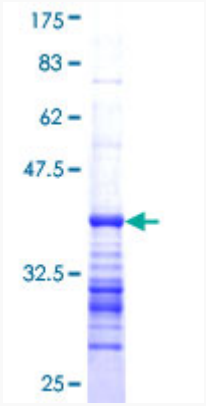
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45-1 Ramsey Road, Shirley, NY 11967, USA

	Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	CACNA1E calcium channel, voltage-dependent, R type, alpha 1E subunit [Homo sapiens]
Official Symbol	CACNA1E
Synonyms	CACNA1E; calcium channel, voltage-dependent, R type, alpha 1E subunit; CACNL1A6; voltage-dependent R-type calcium channel subunit alpha-1E; BII; CACH6; Cav2.3; brain calcium channel II; voltage-gated calcium channel alpha 1E subunit; voltage-dependent calcium channel alpha 1E subunit; voltage-gated calcium channel alpha subunit Cav2.3; voltage-gated calcium channel subunit alpha Cav2.3; calcium channel, voltage-dependent, alpha 1E subunit; calcium channel, L type, alpha-1 polypeptide, isoform 6; calcium channel, R type, alpha-1 polypeptide, isoform 6;
Gene ID	777
mRNA Refseq	NM_000721
Protein Refseq	NP_000712

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MIM	601013
UniProt ID	Q15878
Quality Control Testing	 12.5% SDS-PAGE Stained with Coomassie Blue.

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