Recombinant Mouse Cacna1e Protein, His-tagged

Cat. No. Cacna1e-353M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Cacna1e Protein (Gly246-Trp327) with N-His tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	Gly246-Trp327
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.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 39 kDa Accurate Molecular Mass: 42 kDa
Purity	> 90%

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1 mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.

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; 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 type, alpha 1E subunit; BII; Cach6; Cav2.3; Cchra1; alpha1E; Cacnl1a6; A430040I15
Gene ID	12290
mRNA Refseq	NM_009782

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Protein Refseq	NP_033912
UniProt ID	A0A087WS83

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