

Recombinant Human CACNA1H, His-tagged

Cat. No. CACNA1H-26604TH Lot. No. (See product label)

SPECIFICATION

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|-------------------------|---|
| Product Overview | Recombinant fragment, corresponding to amino acids 2027-2347 of Human CACNA1H with N terminal His tag; 321 amino acids, 57kDa. |
| Species | Human |
| Source | E.coli |
| ProteinLength | 2027-2347 a.a. |
| Description | <p>This gene encodes a T-type member of the alpha-1 subunit family, a protein in the voltage-dependent calcium channel complex. Calcium channels mediate the influx of calcium ions into the cell upon membrane polarization and consist of a complex of alpha-1, alpha-2/delta, beta, and gamma subunits in a 1:1:1:1 ratio. The alpha-1 subunit has 24 transmembrane segments and forms the pore through which ions pass into the cell. There are multiple isoforms of each of the proteins in the complex, either encoded by different genes or the result of alternative splicing of transcripts. Alternate transcriptional splice variants, encoding different isoforms, have been characterized for the gene described here. Studies suggest certain mutations in this gene lead to childhood absence epilepsy (CAE).</p> |
| Conjugation | HIS |
| Form | Lyophilised:Reconstitute with 111 µl aqua dest. |
| Storage buffer | Preservative: None Constituents: 0.5% Trehalose, 6M Urea, 100mM Sodium |

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phosphate, 10mM Sodium chloride, pH 4.5

Storage

Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

Sequences of amino acids

DTLDPAEPGEKTPVRPVTQGGSLQSPPRSPPASVRTRKH TFGQRCVSSRPAAPG
 GEEAEASDPADEEVSHITSSACP WQPTAEPHGPEASPVAGGERDLRRLYSVDAQG
 FLDKPGRA DEQWRPSAELGSGEPGEAKAWGPEAEPALGARRKKMS PPCISVEP
 PAEDEGSARPSAAEGGSTLLRRRTPSCEAT PHRDSLEPTEGSGAGGDPAAKGER
 WGQASCRAEHLTVPSF AFEPLDLGVPSGDPFLDGSHSVTPESRASSSGAIVPLE P
 PESEPPMPVGDPPPEKRRGLYLTVPQCPLKPGSPSAT PAPGGGADDPV

GENE INFORMATION

Gene Name

CACNA1H calcium channel, voltage-dependent, T type, alpha 1H subunit [Homo sapiens]

Official Symbol

CACNA1H

Synonyms

CACNA1H; calcium channel, voltage-dependent, T type, alpha 1H subunit; voltage-dependent T-type calcium channel subunit alpha-1H; Cav3.2;

Gene ID

8912

mRNA Refseq

NM_001005407

Protein Refseq

NP_001005407

MIM

607904

Uniprot ID

O95180

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|----------------------------|--|
| Chromosome Location | 16p13.3 |
| Pathway | Axon guidance, organism-specific biosystem; Calcium signaling pathway, organism-specific biosystem; Calcium signaling pathway, conserved biosystem; Developmental Biology, organism-specific biosystem; MAPK signaling pathway, organism-specific biosystem; |
| Function | low voltage-gated calcium channel activity; voltage-gated ion channel activity; |

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