

Recombinant Human KCNIP3, His-tagged

Cat. No. KCNIP3-26419TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human CSEN with N terminal His tag; 276 amino acids with tag, predicted MWt 31.4 kDa.
Species	Human
Source	E.coli
ProteinLength	256 amino acids
Description	This gene encodes a member of the family of voltage-gated potassium (Kv) channel-interacting proteins, which belong to the recoverin branch of the EF-hand superfamily. Members of this family are small calcium binding proteins containing EF-hand-like domains. They are integral subunit components of native Kv4 channel complexes that may regulate A-type currents, and hence neuronal excitability, in response to changes in intracellular calcium. The encoded protein also functions as a calcium-regulated transcriptional repressor, and interacts with presenilins. Alternatively spliced transcript variants encoding different isoforms have been described.
Conjugation	HIS
Molecular Weight	31.400kDa inclusive of tags
Tissue specificity	Highly expressed in brain. Widely expressed at lower levels. Expression levels are elevated in brain cortex regions affected by Alzheimer disease.

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Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 10% Glycerol, 0.1M Sodium chloride, 20mM Tris HCl, 2mM DTT, pH 8.0
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHHSSGLVPRGSHMQPAKEVTKASDGSLLGDLGHTPLSKKEGIKWQRP RLSRQALMRCCLVKWILSSTAPQGSDDSELELSTVRHQPEGLDQLQAQTKFTKK ELQSLYRGFKNECPTGLVDEDTFKLIYAQFFPQGDATTYAHFLFNAFDADGNGAIHF EDFVVGLSILLRGTVHEKWKWAFNLYDINKDGYITKEEMLAIMKSIYDMMGRHTYPILR EDAPAEHVERFFFEKMDRNQDGVVTIEEFLEACQKDENIMSSMQLFENVI
Sequence Similarities	Belongs to the recoverin family. Contains 4 EF-hand domains.

GENE INFORMATION

Gene Name	KCNIP3 Kv channel interacting protein 3, calsenilin [Homo sapiens]
Official Symbol	KCNIP3
Synonyms	KCNIP3; Kv channel interacting protein 3, calsenilin; calsenilin, presenilin binding protein, EF hand transcription factor , CSEN; calsenilin; DREAM; KCHIP3;
Gene ID	30818
mRNA Refseq	NM_001034914

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Protein Refseq	NP_001030086
MIM	604662
Uniprot ID	Q9Y2W7
Chromosome Location	2q21.1
Pathway	IL-3 Signaling Pathway, organism-specific biosystem;
Function	DNA binding; calcium ion binding; calcium-dependent protein binding; potassium channel activity; protein C-terminus binding;

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