

Recombinant Human KCNIP1, His-tagged

Cat. No. KCNIP1-28452TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 15-214 of Human KCNIP1 Isoform 2 with an N-terminal His tag; MWt 23 kDa.
Species	Human
Source	E.coli
ProteinLength	15-214 a.a.
Description	This gene encodes a member of the family of voltage-gated potassium (Kv) channel-interacting proteins (KCNIPs), which belong to the recoverin branch of the EF-hand superfamily. Members of the KCNIP family are small calcium binding proteins. They all have EF-hand-like domains, and differ from each other in the N-terminus. They are integral subunit components of native Kv4 channel complexes. They may regulate A-type currents, and hence neuronal excitability, in response to changes in intracellular calcium. Alternative splicing results in multiple transcript variant encoding different isoforms.
Conjugation	HIS
Tissue specificity	Isoform 1 and isoform 2 are expressed in brain and kidney. Isoform 1 is also expressed in liver, pancreas, skeletal muscle, small intestine and testis. Isoform 2 is also expressed in lung, pancreas, leukocytes, prostate and thymus.
Form	Lyophilised:Reconstitute with 82 µl aqua dest.

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Storage buffer	Preservative: None Constituents: 0.5% Trehalose, 6M Urea, 100mM Sodium 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	QRRPSKDKIEDELEMTMVCHRPEGLEQLEAQTNFTKRELQ VLYRGFKNECPSGVV NEDTFKQIYAQFFPHGDASTYAH YLFNAFDTTQTGSVKFEDFVTALSILLRGTVHEK LRWT FNLYDINKDGYINKEEMMDIVKAIYDMMGKYTYPVLKE DTPRQHVDVFFQKM DKNKDGIVTLDEFLESCQEDDNIMRS LQLFQN
Sequence Similarities	Belongs to the recoverin family.Contains 4 EF-hand domains.

GENE INFORMATION

Gene Name	KCNIP1 Kv channel interacting protein 1 [Homo sapiens]
Official Symbol	KCNIP1
Synonyms	KCNIP1; Kv channel interacting protein 1; Kv channel-interacting protein 1; KCHIP1;
Gene ID	30820
mRNA Refseq	NM_014592
Protein Refseq	NP_055407
MIM	604660
Uniprot ID	Q9NZI2
Chromosome	5q35

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Location**Function**

calcium ion binding; ion channel activity; potassium channel regulator activity; protein N-terminus binding; protein binding;

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