

## Recombinant Human KCNIP1, His-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant fragment, corresponding to amino acids 15-214 of Human KCNIP1 Isoform 2 with an N-terminal His tag; MWt 23 kDa.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	15-214 a.a.
<b>Description</b>	<p>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.</p>
<b>Conjugation</b>	HIS
<b>Tissue specificity</b>	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.
<b>Form</b>	Lyophilised:Reconstitute with 82 µl aqua dest.

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<b>Storage buffer</b>	Preservative: None Constituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
<b>Sequences of amino acids</b>	QRRPSKDKIEDELEMTMVCHRPEGLEQLEAQTNFTKRELQ VLYRGFKNECPSGVV NEDTFKQIYAQFFPHGDASTYAH YLFNAFDTTQTGSVKFEDFVTALSILLRGTVHEK LRWT FNLYDINKDGYINKEEMMDIVKAIYDMMGKYTYPVLKE DTPRQHVDVFFQKM DKNKDGIVTLDEFLESCQEDDNIMRS LQLFQN
<b>Sequence Similarities</b>	Belongs to the recoverin family. Contains 4 EF-hand domains.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">KCNIP1 Kv channel interacting protein 1 [ Homo sapiens ]</a>
<b>Official Symbol</b>	<a href="#">KCNIP1</a>
<b>Synonyms</b>	KCNIP1; Kv channel interacting protein 1; Kv channel-interacting protein 1; KCHIP1;
<b>Gene ID</b>	<a href="#">30820</a>
<b>mRNA Refseq</b>	<a href="#">NM_014592</a>
<b>Protein Refseq</b>	<a href="#">NP_055407</a>
<b>MIM</b>	<a href="#">604660</a>
<b>Uniprot ID</b>	<a href="#">Q9NZI2</a>
<b>Chromosome</b>	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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