Recombinant Human KCNIP3, His-tagged

Cat. No. KCNIP3-2873H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant humanKCNIP3 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
Description	KCNIP3 is 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 the KCNIP family are small calcium binding proteins containing EF-hand-like domains. This protein also functions as a calcium-regulated transcriptional repressor, and interacts with presenilins. Mutations in the presenilin genes have been implicated in Alzheimer"s disease.
Sequence	MGSSHHHHHH SSGLVPRGSH MQPAKEVTKA SDGSLLGDLG HTPLSKKEGI KWQRPRLSRQ ALMRCCLVKW ILSSTAPQGS DSSDSELELS TVRHQPEGLD QLQAQTKFTK KELQSLYRGF KNECPTGLVD EDTFKLIYAQ FFPQGDATTY AHFLFNAFDA DGNGAIHFED FVVGLSILLR GTVHEKLKWA FNLYDINKDG YITKEEMLAI MKSIYDMMGR HTYPILREDA PAEHVERFFE KMDRNQDGVV TIEEFLEACQ KDENIMSSMQ LFENVI.
Purity	> 90% by SDS – PAGE.
MW	31.4 kDa (276aa) confirmed by MALDI-TOF.

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

Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol, 2mM DTT, 50mM NaCl, 0.1mM PMSF.
Concentration	1mg/ml (determined by Bradford assay).
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name	KCNIP3 Kv channel interacting protein 3, calsenilin [Homo sapiens]
Synonyms	KCNIP3; Kv channel interacting protein 3, calsenilin; A-type potassium channel modulatory protein 3; DRE-antagonist modulator; calsenilin; calsenilin, presenilin-binding protein, EF hand transcription factor; kv channel-interacting protein 3; potassium channel interacting protein 3; CSEN, DREAM, KCHIP3, MGC18289
Gene ID	30818
mRNA Refseq	NM_001034914
Protein Refseq	NP_001030086
MIM	604662
UniProt ID	Q9Y2W7
Chromosome Location	2q21.1
Pathway	Metabolic pathways; Nicotinate and nicotinamide metabolism; Metabolism of

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

	nucleotides
Function	drug binding; nucleoside binding; purine-nucleoside phosphorylase activity; DNA binding; specific transcriptional repressor activity; voltage-gated ion channel activity; transcription corepressor activity

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