

# Recombinant human KCNIP3 protein

Catalog Number: ATGP0789

## PRODUCT INFORMATION

**Expression system**

E.coli

**Domain**

1-256aa

**UniProt No.**

Q9Y2W7

**NCBI Accession No.**

NP\_038462

**Alternative Names**

Calsenilin, Calsenilin, CSEN, DREAM, KCHIP3, MGC18289

## PRODUCT SPECIFICATION

**Molecular Weight**

31.4 kDa (276aa) confirmed by MALDI-TOF

**Concentration**

1mg/ml (determined by Bradford assay)

**Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 2mM DTT, 0.1M NaCl.

**Purity**

> 90% by SDS-PAGE

**Tag**

His-Tag

**Application**

SDS-PAGE

**Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

**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. Recombinant human KCNIP3 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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### Amino acid Sequence

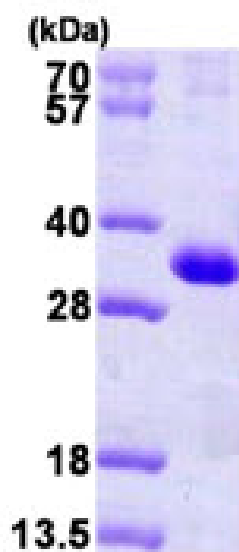
MGSSHHHHHH SSGLVPRGSH MQPAKEVTKA SDGSLLGDLG HTPLSKKEGI KWQRPRLSRQ ALMRCCLVKW ILSSTAPQGS  
DSSDSELELS TVRHQPEGLD QLQAQTKFTK KELQSLYRGF KNECPTGLVD EDTFKLIYAQ FFPQGDATTY AHFLFNAFDA  
DGNGAIHFED FVVGLSILLR GTVHEKWKWA FNLYDINKDG YITKEEMLAI MKSIYDMMGR HTYPILREDA PAEHVERFFE  
KMDRNQDGVV TIEEFLEACQ KDENIMSSMQ LFENVI

### General References

Buxbaum JD., et al. (1998) Nat Med. 4(10):1177-81.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)