

# Human CSEN / Calsenilin / KCNIP3 Protein (His Tag)

Catalog Number: 14683-H07E



Sino Biological  
Biological Solution Specialist

## General Information

### Gene Name Synonym:

CSEN; DREAM; KCNIP3

### Protein Construction:

A DNA sequence encoding the human KCNIP3 (Q9Y2W7-1) (Met1-Ile256) was expressed with a polyhistidine tag at the N-terminus.

**Source:** Human

**Expression Host:** E. coli

## QC Testing

**Purity:** > 85 % as determined by SDS-PAGE

### Endotoxin:

Please contact us for more information.

### Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

**Predicted N terminal:** His

### Molecular Mass:

The recombinant human KCNIP3 consists of 271 amino acids and predicts a molecular mass of 31.1 KDa. It migrates as an approximately 29 KDa band in SDS-PAGE under reducing conditions.

### Formulation:

Lyophilized from sterile 50mM Tris, 100mM NaCl, 10% Glycerol, 1mM DTT, pH 8.0.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

## Usage Guide

### Storage:

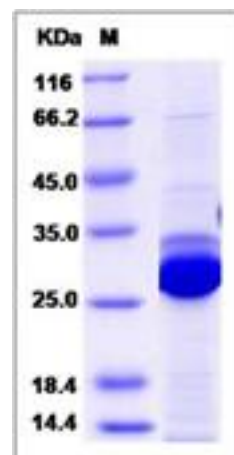
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

**Avoid repeated freeze-thaw cycles.**

### Reconstitution:

Detailed reconstitution instructions are sent along with the products.

## SDS-PAGE:



## Protein Description

CSEN, also known as calsenilin and 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 this family 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. CSEN also functions as a calcium-regulated transcriptional repressor, and interacts with presenilins. CSEN binds to the DRE element of genes including PDYN and FOS.

## References

1. Buxbaum J.D., *et al.*, (1998), Calsenilin: a calcium-binding protein that interacts with the presenilins and regulates the levels of a presenilin fragment. *Nat. Med.* 4:1177-1181. 2. Carrion A.M., *et al.*, (1999), DREAM is a Ca<sup>2+</sup>-regulated transcriptional repressor. *Nature* 398:80-84. 3. An W.F., *et al.*, (2000), Modulation of A-type potassium channels by a family of calcium sensors. *Nature* 403:553-556.

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