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# Recombinant human RCAN3 protein

Catalog Number: ATGP1811

## **PRODUCT INFORMATION**

## **Expression system**

E.coli

#### **Domain**

56-241aa

#### UniProt No.

O9UKA8

#### **NCBI Accession No.**

NP 038469

#### **Alternative Names**

Calcipressin-3, DSCR1L2, hRCN3, MCIP3, RCN3

# **PRODUCT SPECIFICATION**

### **Molecular Weight**

23.5 kDa (209aa)

#### Concentration

0.5mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 2M urea, 20% glycerol, 0.2M NaCl

#### **Purity**

> 90% by SDS-PAGE

#### Tag

His-Tag

#### **Application**

SDS-PAGE, Denatured

## **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**

Calcipressin-3, also known as RCAN3, is a 241 amino acid protein that potentially is involved in central nervous system development. RCAN3 inhibits calcineurin-dependent transcriptional responses by binding to the catalytic domain of calcineurin A. Overexpression of calcipressin-3 results in inhibition of calcineurin activity towards the nuclear factor of activated T-cells (NFAT) transcription factors and also downregulates NFAT-dependent cytokine gene expression in activated Jurkat T-cells. Highest expression occurs in heart, skeletal muscle kidney, liver and peripheral blood leukocytes. Recombinant human RCAN3 protein, fused to His-tag at N-terminus, was expressed



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in E. coli.

# **Amino acid Sequence**

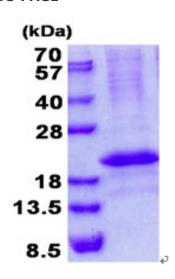
MGSSHHHHHH SSGLVPRGSH MGSEAVFEAR EQKERFEALF TIYDDQVTFQ LFKSFRRVRI NFSKPEAAAR ARIELHETDF NGQKLKLYFA QVQMSGEVRD KSYLLPPQPV KQFLISPPAS PPVGWKQSED AMPVINYDLL CAVSKLGPGE KYELHAGTES TPSVVVHVCE SETEEEEETK NPKQKIAQTR RPDPPTAALN EPQTFDCAL

#### **General References**

Strippoli P., et al. (2000) Genomics. 64:252-263. Abbasi S., et al. (2006) J Biol Chem. 281:7717-7726.

# **DATA**

#### **SDS-PAGE**



coomassie blue stain.

3ug by SDS-PAGE under reducing condition and visualized by

15% SDS-PAGE (3ug)