

Recombinant human RCAN3 protein

Catalog Number: ATGP1811

PRODUCT INFORMATION

Expression system

E.coli

Domain

56-241aa

UniProt No.

Q9UKA8

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

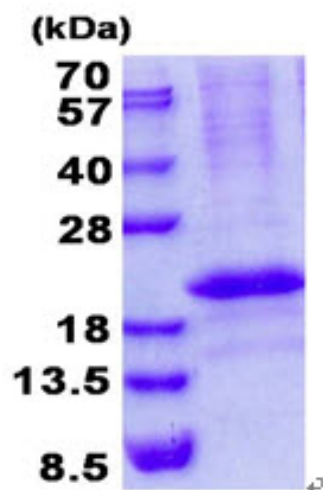
MGSSHHHHHHH SGLVPRGSH MGSEAVFEAR EQKERFEALF TIYDDQVTFQ LFKSFRRVRI NFSKPEAAAR ARIELHETDF
NGQKLKLYFA QVQMSGEVRD KSYLLPPQPV KQFLISPPAS PPVGWKQSED AMPVINYDLL CAVSKLGPGE KYELHAGTES
TPSVVVHVCE SETEEEEETK NPKQKIAQTR RPDPTAALN EPQTFDCAL

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



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

15% SDS-PAGE (3ug)