Recombinant Human RCAN1

Cat. No. RCAN1-27792TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment: MKLYFAQTLHIGSSHLAPP N PDKQFLIS PP ASPPVGW KQV EDATPV INYD LLYAI SKLGP , corresponding to N terminal amino acids 1-117 of Human Calcipressin 1
Species	Human
Source	E.coli
ProteinLength	1-117 a.a.
Description	The protein encoded by this gene interacts with calcineurin A and inhibits calcineurin-dependent signaling pathways, possibly affecting central nervous system development. This gene is located in the minimal candidate region for the Down syndrome phenotype, and is overexpressed in the brain of Down syndrome fetuses. Chronic overexpression of this gene may lead to neurofibrillary tangles such as those associated with Alzheimer disease. Three transcript variants encoding three different isoforms have been found for this gene.
Tissue specificity	Highly expressed heart, brain and skeletal muscle. Also expressed in all other tissues.
Form	Liquid
Purity	>90% by SDS-PAGE

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

Storage buffer	Preservative: NoneConstituents: 0.1M Sodium chloride, 20mM Tris 7.5, 1mM DTT
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Sequences of amino acids	MKLYFAQTLH IGSSHLAPPN PDKQFLISPP ASPPVGWKQV EDATPVINYD LLYAISKLGPGEKYELHAAT DTTPSVVVHV CESDQEKEEE EEMERMRRPK PKIIQTRRPE YTPIHLS
Sequence Similarities	Belongs to the RCAN family.

GENE INFORMATION

Gene Name	RCAN1 regulator of calcineurin 1 [Homo sapiens]
Official Symbol	RCAN1
Synonyms	RCAN1; regulator of calcineurin 1; Down syndrome critical region gene 1 , DSCR1; calcipressin-1;
Gene ID	1827
mRNA Refseq	NM_004414
Protein Refseq	NP_004405
MIM	602917
Uniprot ID	P53805
Chromosome Location	21q22.1-q22.2

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Pathway	Calcium signaling in the CD4+ TCR pathway, organism-specific biosystem; MicroRNAs in cardiomyocyte hypertrophy, organism-specific biosystem; Notch-mediated HES/HEY network, organism-specific biosystem; Role of Calcineurin-dependent NFAT signaling in lymphocytes, organism-specific biosystem;
Function	DNA binding; protein binding; sequence-specific DNA binding transcription factor activity;

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