

Recombinant Human Regulator of Calcineurin 1

Cat. No. RCAN1-298H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant HumanRCAN1 protein produced in E.Coli encodes 117 (1-117) amino acids and has a molecular mass of 13 kDa.The protein is purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
ProteinLength	1-117 a.a.
Description	The Down"s syndrome candidate region 1 (DSCR1) protein, encoded by a gene located in the human chromosome 21, interacts with calcineurin and is overexpressed in Down"s syndrome patients. DSCR1 Inhibits calcineurin-dependent transcriptional responses by binding to the catalytic domain of calcineurin A, possibly affecting central nervous system development. DSCR isoform b is shorter at the N-terminus compared to isoform a.
Formulation	Liquid. In 20 mM Tris-HCl buffer (pH 7.5) containing 1 mM DTT, 100 mM NaCl.
Molecular Weight	13 kDa (117aa).
Purity	> 90% by SDS – PAGE.
Concentration	1 mg/ml (determined by Bradford assay).

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Sequence	MKLYFAQTLH IGSSHLAPPN PDKQFLISPP ASPPVGWKQV EDATPVINYD LLYAISKLG P GEKYELHAAT DTPSVVVHV CESDQEKEEE EEMERMRRPK PKIIQTRRPE YTPIHLS
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
GENE INFORMATION	
Gene Name	RCAN1
Synonyms	RCAN1; regulator of calcineurin 1; CSP1; DSC1; RCN1; DSCR1; MCIP1; ADAPT78; RCAN1; Adapt78; calcipressin 1; near DSCR proline-rich protein; Down syndrome candidate region 1; Down syndrome critical region gene 1; Down syndrome critical region protein 1; Myocyte-enriched calcineurin-interacting protein 1; calcium and oxidant-inducible mRNA; modulatory calcineurin-interacting protein 1; myocyte-enriched calcineurin-interacting protein 1.
Gene ID	1827
mRNA Refseq	NM_004414.5
Protein Refseq	NP_004405.3
MIM	602917
UniProt ID	P53805
Chromosome Location	21q22.1-q22.2; 21q22.12

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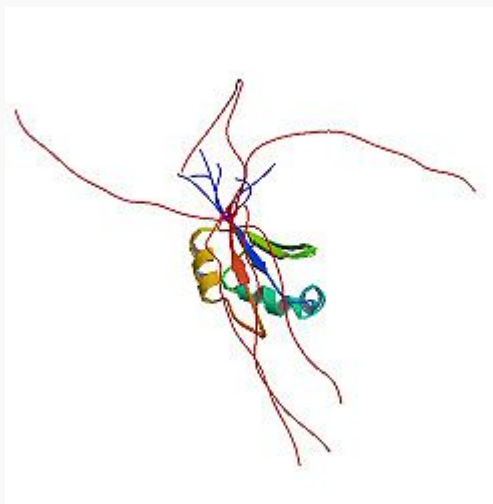
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Function

protein binding; transcription factor activity.

PDBrendering based
on 1wey. Available
structures: 1wey.



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