

Recombinant Human RCAN Family Member 3

Cat. No. RCAN3-115H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human DSC1 Isoform-b produced in <i>E. Coli</i> is a single, non-glycosylated polypeptide chain. The protein contains 117 amino acids and has a molecular mass of 13 kDa.
Species	Human
Source	E.coli
Description	DSC1 encoded by a gene located in the human chromosome 21, interacts with calcineurin A and inhibits calcineurin-dependent signaling pathways, possibly affecting central nervous system development. DSC1 is located in the minimal candidate region for the Down syndrome phenotype, and is over expressed in the brain of Down syndrome fetuses. Chronic over expression 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. DSCR1 Inhibits calcineurin-dependent transcriptional responses by binding to the catalytic domain of calcineurin A, possibly affecting central nervous system development.
Amino Acid Sequence	MKLYFAQTLH IGSSHLAPPN PDKQFLISPP ASPPVGWKQV EDATPVINYD LLYAISKLGPGKEYELHAAT DTPSVVVHV CESDQEKEEE EEMERMRR PK PKIIQTRRPE YTPIHLS.
Physical Appearance	Sterile Filtered colorless solution.

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Formulation	The protein solution (1mg/ml) contains 20mM Tris-HCl pH-7.5, 100mM NaCl and 1mM DTT.
Purity	Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Stability	SNAP25 although stable 14°C for 4 weeks, should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

GENE INFORMATION

Gene Name	RCAN3 RCAN family member 3 [Homo sapiens]
Synonyms	RCAN3; RCAN family member 3; RCN3; MCIP3; hRCN3; DSCR1L2; Calciressin-3; Regulator of calcineurin 3; Down syndrome candidate region 1-like protein 2; Myocyte-enriched calcineurin-interacting protein 3; OTTHUMP00000003336; Down syndrome candidate region 1-like 2; Down syndrome critical region gene 1-like 2; Myocyte-enriched calcineurin-interacting protein 3; RCAN family member 3; Regulator of calcineurin 3
Gene ID	11123
mRNA Refseq	NM_013441
Protein Refseq	NP_038469
UniProt ID	Q9UKA8
Chromosome Location	1p35.3-p33

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MIM	605860
Function	RNA binding; troponin I binding