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## Product Data Sheet

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Product Name: RCAN1 Human

Cat. No.: GP24355

Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Calcipressin-1; Regulator of calcineurin 1; Down syndrome critical region protein 1; Myocyte-enriched calcineurin-interacting protein 1; MCIP1; Adapt78; RCAN1; ADAPT78; CSP1; DSC1; DSCR1; RCN1.		
Amino Acid Sequence	MKLYFAQTLH IGSSHLAPPN PDKQFLISPP ASPVGVWKQV EDATPVINYD LLYAISKLGPGKEYELHAAT DTPSVVVHV CESDQEKEEE EEMERMRRPK PKIIQTRRPE YTPIHLS.		
Formulation	The protein solution (1mg/ml) contains 20mM Tris-HCl pH-7.5, 100mM NaCl and 1mM DTT.		

**Introduction**

RCAN1 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. RCAN1 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.

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Background**

**Caution: Product has not been fully validated for medical applications. For research use only.**

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RCAN1 Isoform-b Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 117 amino acids and having a molecular mass of 13 kDa.

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