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- Mindermengenzuschlag
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Recombinant Human Regulator of Calcineurin 1

CLPRO319
CLPRO319-2
CLPRO319-3

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.

Description:

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.

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.

Source: *Escherichia Coli*

Presentation: 5 µg (CLPRO319), 20 µg (CLPRO319-2), or 1 mg (CLPRO319-3) sterile filtered colorless solution. The protein solution (1mg/ml) contains 20mM Tris-HCl pH-7.5, 100mM NaCl and 1mM DTT.

Stability: RCAN1 although stable at 4°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.

Amino Acid Sequence:

MKLYFAQTLH IGSSHLAPPN PDKQFLISPP ASPPVGWKQV EDATPVINYD LLYAISKLGPGEKYELHAAT
DTTPSVVVHV CESDQEKEEE EEMERMRRPK PKIIQTRRPE YTIHLS.

Purity: Greater than 90.0% as determined by SDS-PAGE.

Laboratory Reagent For Research Use Only

JK 09/28/15

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