Recombinant Human Regulator Of Calcineurin 2, His-tagged

Cat. No. RCAN2-4750H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human RCAN2 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	Human
Description	Calcipressin-2, also known as RCAN2, belonging to the RCAN (Regulator of calcineurin) family modulate the activity of Calcineurin through a valine-rich region within their carboxyl tail. RCANs compete with NFAT(nuclear factor of activated T-cells) for binding to the same docking site in calcineurin, which results in either inhibition or activation of calcineurin activity. RCAN2 is a Ca(2+) dependent protein phosphatase that is involed in several neuornal functions.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 20% glycerol, 0.2M NaCl
Molecular Weight	24.1 kDa (217aa), confirmed by MALDI-TOF
Purity	> 85% by SDS - PAGE
Concentration	0.5 mg/ml (determined by Bradford assay)
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MPAPSMDCDV STLVACVVDV EVFTNQEVKE KFEGLFRTYD DCVTFQLFKS FRRVRINFSN PKSAARARIE LHETQFRGKK

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	LKLYFAQVQT PETDGDKLHL APPQPAKQFL ISPPSSPPVG WQPINDATPV LNYDLLYAVA KLGPGEKYEL HAGTESTPSV VVHVCDSDIE EEEDPKTSPK PKIIQTRRPG LPPSVSN
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.
Pathways	Calcium signaling in the CD4+ TCR pathway; Role of Calcineurin-dependent NFAT signaling in lymphocytes

GENE INFORMATION

Gene Name	RCAN2 regulator of calcineurin 2 [Homo sapiens]
Official Symbol	RCAN2
Synonyms	RCAN2; CSP2; RCN2; MCIP2; ZAKI4; hRCN2; ZAKI-4; DSCR1L1; regulator of calcineurin 2; calcipressin-2; OTTHUMP00000016544; Down syndrome candidate region 1-like 1; thyroid hormone-responsive protein ZAKI-4; Down syndrome critical region gene 1-like 1; thyroid hormone-responsive (skin fibroblasts); myocyte-enriched calcineurin-interacting protein 2; Calcipressin 2 (Thyroid hormone-responsive protein ZAKI-4) (Down syndrome candidate region 1-like 1) (Myocyte-enriched calcineurin interacting protein 2) (MCIP2)
Gene ID	10231
mRNA Refseq	NM_005822
Protein Refseq	NP_005813
MIM	604876

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UniProt ID	Q14206
Chromosome Location	6p12.3
Function	nucleotide binding; protein phosphatase 2B binding

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