

Recombinant human Calcipressin-1/DSCR1 protein

Catalog Number: DSR0701

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-117aa

UniProt No.

P53805

NCBI Accession No.

NP_981962.1

Alternative Names

Calcipressin 1 isoform b, Regulator of calcineurin 1, RCAN1, Down syndrome critical region gene 1, DSCR1, Adapt78, Myocyte-enriched calcineurin-interacting protein 1, MCIP1, CSP1, DSC1

PRODUCT SPECIFICATION

Molecular Weight

13.2 kDa (117aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 7.5) containing 0.1M NaCl, 1mM DTT, 10% Glycerol

Purity

> 90% by SDS-PAGE

Tag

Non-Tagged

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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. Recombinant human DSCR1 was expressed in E. coli and purified by using conventional chromatography

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techniques.

Amino acid Sequence

MKLYFAQTLH IGSSHLAPPN PDKQFLISPP ASPPVGWKQV EDATPVINYD LLYAISKLGP GEKYLHAAT DTTPSVVVHV
CESDQEKEEE EEMERMRRPK PKIIQTRRPE YTPIHLS

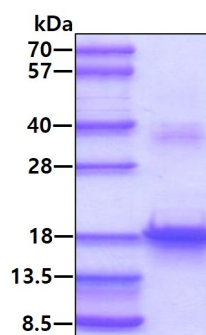
General References

Hesser BA., et al. (2004) Blood. 104(1):149-58

Harris CD., et al. (2007) FEBS J. 274(7):1715-24.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.