

Recombinant human DSTN protein

Catalog Number: ATGP1596

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-165aa

UniProt No.

P60981

NCBI Accession No.

NP_006861

Alternative Names

Destrin (actin depolymerizing factor), ACTDP, ADF, bA462D18.2

PRODUCT SPECIFICATION

Molecular Weight

19.5 kDa (173aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 10% glycerol, 1mM DTT

Purity

> 95% by SDS-PAGE

Tag

His-Tag

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

Destrin (actin depolymerizing factor), also known as DSTN, is a member of the ADF/Cofilin/destrin superfamily that has the ability to rapidly depolymerize F-Actin in a stoichiometric manner. DSTN is a small phosphoinositide-sensitive actin-binding protein capable of depolymerizing actin-filaments in vitro. It is found in various epithelial and endothelial cells but is practically absent from adult mouse heart and skeletal muscle cells. DSTN shares 71% sequence homology with Cofilin, however the two proteins differ in their interaction with Actin.

Recombinant human DSTN protein, fused to His-tag at C-terminus, was expressed in E. coli and purified by using

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conventional chromatography techniques.

Amino acid Sequence

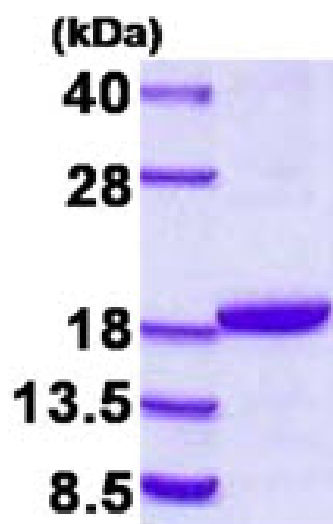
MASGVQVADE VCRIFYDMKV RKCSTPEEIK KRKKAVIFCL SADKKCIIVE EGKEILVGDV GVTITDPFKH FVGMLPEKDC
RYALYDASFE TKESRKEELM FFLWAPELAP LSKSMIYASS KDAIKKKFQG IKHECQANGP EDLNRACIAE KLGGSILIVAF
EGCPVLEHHH HHH

General References

Nishida E., et al. (1985) *Biochemistry*. 24:6624-6630.
Kanamori T., et al. (1995) *J Biol Chem*. 270: 8061-8067.

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)