

## DSTN Human

**Description:** DSTN Human Recombinant produced in E. coli is a single polypeptide chain containing 173 amino acids (1-165) and having a molecular mass of 19.5 kDa. DSTN is fused to an 8 amino acid His-tag at C-terminus & purified by proprietary chromatographic techniques.

**Catalog #:** PRPS-1144

For research use only.

**Synonyms:** Destrin (actin depolymerizing factor), ACTDP, ADF, bA462D18.2 (destrin (actin depolymerizing factor ADF) (ACTDP)), destrin, DSN.

**Source:** E.coli.

**Physical Appearance:** Sterile Filtered colorless solution.

**Amino Acid Sequence:** MASGVQVADE VCRIFYDMKV RKCSTPEEIK KRKKAVIFCL  
SADKKCIIVE EGKEILVGDV GVTITDPFKH FVGMLPEKDC RYALYDASFE TKESRKEELM  
FFLWAPELAP LKSKMIYASS KDAIKKKFQG IKHECQANGP EDLNRACIAE KLGGSLIVAF  
EGCPVLEHHH HHH

**Purity:** Greater than 95% as determined by SDS-PAGE.

### Formulation:

The DSTN solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.1M NaCl, 1mM DTT and 10% glycerol.

### 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.

### Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### Introduction:

Actin depolymerizing factor (Destrin/DSTN) belongs to the ADF/Cofilin/destrin superfamily which has the ability to swiftly depolymerize F-Actin in a stoichiometric mode. The ADF family of proteins is responsible for enhancing the turnover rate of actin in vivo. Destrin is a small phosphoinositide-sensitive actin-binding protein capable of depolymerizing actin-filaments in vitro. DSTN functions in a pH-independent manner. DSTN is found in a variety of epithelial and endothelial cells, however it is virtually nonexistent in adult mouse heart and skeletal muscle cells. Destrin shares a 71% sequence homology with Cofilin, however the 2 proteins vary in their interaction with Actin.

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