

## 32-3693: DSTN Recombinant Protein

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

### Description

Source : E.coli. 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. 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.

### Product Info

|                            |   |
|----------------------------|---|
| <b>Amount :</b>            | 20 µg   |
| <b>Purification :</b>      | Greater than 95% as determined by SDS-PAGE.   |
| <b>Content :</b>           | The DSTN solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.1M NaCl, 1mM DTT and 10% glycerol.   |
| <b>Storage condition :</b> | 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. |
| <b>Amino Acid :</b>        | MASGVQVADE VCRIFYDMKV RKCSTPEEIK KRKKAVIFCL SADKKCIIVE EGKEILVGDV GVTITDPFKH<br>FVGMLEPKDC RYALYDASFE TKESRKEELM FFLWAPELAP LKSKMIYASS KDAIKKKFQG IKHECQANGP<br>EDLNRACIAE KLGGSILIVAF EGCPVLEHHH HHH                               |

