Recombinant DEST protein (His tag)

Catalog Number	540093
Synonyms	Actin-depolymerizing factor; ADF
Species	Human
Expression System	E. coli
Accession	P60981
Molecular Weight	Predictes a molecular mass of 20.03 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 21 kDa band.

Product Information

Sequence Region	2-165
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>88%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 2-165 aa (P60981) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Recombinant Human Destrin (Actin-depolymerizing factor) Fragment (aa 2-165) – a high-purity protein tool designed for studying actin cytoskeleton dynamics. This fragment fully encompasses the functional ADF-H domain, enabling targeted investigation of actin filament severing and monomer binding activities. Destrin, also known as Actin-depolymerizing factor (ADF), is a key regulatory protein that severs actin filaments (F-actin) and binds actin monomers (G-actin). It functions in a pH-independent manner to control actin cytoskeleton reorganization, playing critical roles in cellular processes such as cell motility, division, and morphology. The provided fragment spans residues 2-165, containing the complete ADF-H domain essential for its actin-depolymerizing activity, making it an ideal reagent for domain-specific functional studies.