



# Recombinant Protein Technical Manual

## Recombinant Human Desmin Protein (His Tag)

RPES2269

### Product Data:

**Product SKU:** RPES2269

**Size:** 10µg

**Species:** Human

**Expression host:** E. coli

**Uniprot:** P17661

### Protein Information:

**Molecular Mass:** 26.7 kDa

**AP Molecular Mass:** 30 kDa

**Tag:** N-6His

**Bio-activity:**

**Purity:** > 95 % as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.2.

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** Desmin; DES

## Immunogen Information:

**Sequence:** Val260-Leu470

## Background:

Desmin is a cytoplasmic protein and belongs to the intermediate filament family. It interacts with DST and MTM1. Desmin is only expressed in vertebrates, however homologous proteins are found in many organisms. Desmin is the main intermediate filament in mature skeletal, cardiac and smooth-muscle cells. DES functions as homopolymers to form a stable intracytoplasmic filamentous network connecting myofibrils to each other and to the plasma membrane. . Defects in DES are cause of the myopathy myofibrillar type 1, cardiomyopathy dilated type 1I, and neurogenic scapulooperoneal syndrome Kaeser type.