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## Desmin Protein (DES) (AA 260-470) (His tag)



#### Overview

| Quantity:                     | 50 μg                                         |
|-------------------------------|-----------------------------------------------|
| Target:                       | Desmin (DES)                                  |
| Protein Characteristics:      | AA 260-470                                    |
| Origin:                       | Human                                         |
| Source:                       | Escherichia coli (E. coli)                    |
| Protein Type:                 | Recombinant                                   |
| Purification tag / Conjugate: | This Desmin protein is labelled with His tag. |

#### **Product Details**

| Purpose:         | Recombinant Human Desmin (N-6His)                                                         |
|------------------|-------------------------------------------------------------------------------------------|
| Sequence:        | MGSSHHHHHH SSGLVPRGSH MVEMDMSKPD LTAALRDIRA QYETIAAKNI SEAEEWYKSK                         |
|                  | VSDLTQAANK NNDALRQAKQ EMMEYRHQIQ SYTCEIDALK GTNDSLMRQM RELEDRFASE                         |
|                  | ASGYQDNIAR LEEEIRHLKD EMARHLREYQ DLLNVKMALD VEIATYRKLL EGEESRINLP                         |
|                  | IQTYSALNFR ETSPEQRGSE VHTKKTVMIK TIETRDGEVV SEATQQQHEV L                                  |
| Characteristics: | Recombinant Human Desmin is produced by our E. coli expression system. The target protein |
|                  | is expressed with sequence (Val260-Leu470) of Human DES fused with a 6His tag at the N-   |
|                  | terminus.                                                                                 |
| Purity:          | > 95 % as determined by reducing SDS-PAGE.                                                |
| Sterility:       | 0.2 µm filtered                                                                           |
| Endotoxin Level: | Less than 0.1 ng/μg (1 IEU/μg) as determined by LAL test                                  |

### **Target Details**

| Target:           | Desmin (DES)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Alternative Name: | Desmin (DES Products)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Sub Type:         | Fusionprotein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Background:       | Desmin is a cytoplasmic protein and belongs to the intermediate filament family. 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 founctions 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 11, and neurogenic scapuloperoneal syndrome Kaeser type. |
|                   | Alternative Names: Desmin, DES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Molecular Weight: | 26.7 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| UniProt:          | P17661                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

## **Application Details**

| Restrictions: For Research Use only |
|-------------------------------------|
|-------------------------------------|

## Handling

| Format:          | Lyophilized                                                                                                                                                                                                                                 |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reconstitution:  | It is not recommended to reconstitute to a concentration less than 100 µg/mL.  Dissolve the lyophilized protein in ddH2O.  Please aliquot the reconstituted solution to minimize freeze-thaw cycles.                                        |
| Buffer:          | Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.2.                                                                                                                                                               |
| Handling Advice: | Always centrifuge tubes before opening. Do not mix by vortex or pipetting.                                                                                                                                                                  |
| Storage:         | 4 °C/-20 °C/-80 °C                                                                                                                                                                                                                          |
| Storage Comment: | Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.  Reconstituted protein solution can be stored at 4-7°C for 2-7 days.  Aliquots of reconstituted samples are stable at < -20°C for 3 months. |
| Expiry Date:     | 3 months                                                                                                                                                                                                                                    |