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TECHNICALLY Speaking

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Recombinant Human Desmin

CLPRO520
CLPRO520-2
Lot:

Description: Recombinant Human Desmin having a molecular mass of 53,539 daltons, made in *E. Coli*.

Presentation:20 µg (**CLPRO520**) or 100 µg (**CLPRO520-2**) sterile filtered lyophilized powder. The protein was lyophilized from a 1mg/ml solution containing 30 mM Tris/HCI pH 8, 9.5 M urea, 2 mM DTT, 2 mM EDTA and 10 mM methylammonium chloride.

Stability: Lyophilized rHuDesmin although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Recombinant Desmin should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).
Avoid freeze-thaw cycles.

Solubility: It is recommended to reconstitute the lyophilized Recombinant Human Desmin in sterile 18MΩ-cm H_2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Applications:
Protein standard in 1D and 2D SDS gelelectrophoresis, Immunoassays and Immunization.

Purity:
Greater than 95.0% as determined by RP-HPLC and SDS-PAGE analysis.

References:

1. Assembly defects of desmin disease mutants carrying deletions in the alpha-helical rod domain are rescued by wild type protein. J Struct Biol 2006 Nov 10;
2. New insights into the molecular basis of desmoplakinand desmin-related cardiomyopathies. J Cell Sci 2006 Dec 1;119(Pt 23):4974-85
3. Absence of upregulated genes associated with protein accumulations in desmin myopathy. Muscle Nerve 2006 Oct 26;
4. Association between the muscle-specific proteins desmin and caveolin-3 in muscle cells. Cell Tissue Res 2007 Feb;327(2):343-51
5. Myofibrillar myopathy with congenital cataract and skeletal anomalies without mutations in the desmin, alphaB-crystallin, myotilin, LMNA or SEPN1 genes. Neuromuscul Disord 2006 Nov;16(11):759-62
6. Blood vessels and desmin control the positioning of nuclei in skeletal muscle fibers. J Cell Physiol 2006 Dec;209(3):874-82**6**. Epidemiology of desmin and cardiac actin gene mutations in a european population of dilated cardiomyopathy. Eur Heart J 2000 Nov;21 (22):1872-6

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JJ 01/10/07

For more information or to place an order please contact...

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