Recombinant Human LMOD3 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. LMOD3-1028H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	LMOD3 MS Standard C13 and N15-labeled recombinant protein (NP_938012) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	The protein encoded by this gene is a member of the leiomodin family of proteins. This protein contains three actin-binding domains, a tropomyosin domain, a leucine-rich repeat domain, and a Wiskott-Aldrich syndrome protein homology 2 domain (WH2). Localization of this protein to the pointed ends of thin filaments has been observed, and there is evidence that this protein acts as a catalyst of actin nucleation, and is important to the organization of sarcomeric thin filaments in skeletal muscles. Mutations in this gene have been associated as one cause of Nemaline myopathy, as other genes have also been linked to this disorder. Nemaline myopathy is a disorder characterized by nonprogressive generalized muscle weakness and protein inclusions (nemaline bodies) in skeletal myofibers. Patients with mutations in this gene often present with a severe congenital form of the disorder.
Molecular Mass	64.7 kDa
AA Sequence	MSEHSRNSDQEELLDEEINEDEILANLSAEELKELQSEMEVMAPDPSLPVGMIQKDQ TDKPPTGNFNHKSLVDYMYWEKASRRMLEEERVPVTFVKSEEKTQEEHEEIEKRNK

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	NMAQYLKEKLNNEIVANKRESKGSSNIQETDEEDEEEEDDDDDDEGEDDGEESEET NREEEGKAKEQIRNCENNCQQVTDKAFKEQRDRPEAQEQSEKKISKLDPKKLALDT SFLKVSTRPSGNQTDLDGSLRRVRKNDPDMKELNLNNIENIPKEMLLDFVNAMKKNK HIKTFSLANVGADENVAFALANMLRENRSITTLNIESNFITGKGIVAIMRCLQFNETLTE LRFHNQRHMLGHHAEMEIARLLKANNTLLKMGYHFELPGPRMVVTNLLTRNQDKQR QKRQEEQKQQQLKEQKKLIAMLENGLGLPPGMWELLGGPKPDSRMQEFFQPPPPR PPNPQNVPFSQRSEMMKKPSQAPKYRTDPDSFRVVKLKRIQRKSRMPEAREPPEK TNLKDVIKTLKPVPRNRPPPLVEITPRDQLLNDIRHSSVAYLKPVQLPKELATRTRPLE QKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 μg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	LMOD3 leiomodin 3 [Homo sapiens (human)]
Official Symbol	LMOD3
Synonyms	LMOD3; leiomodin 3; NEM10; leiomodin-3; leiomodin 3 (fetal); leiomodin, fetal form
Gene ID	56203

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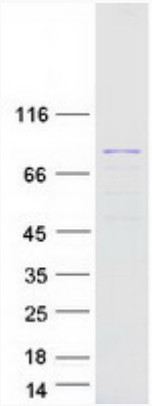
mRNA Refseq	NM_198271
Protein Refseq	NP_938012
MIM	616112
UniProt ID	Q0VAK6
SDS-PAGE	

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