

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 leiomodins 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 TDKPPTGNFNHKS LVDYMYWEKASRRMLEEERVPTFVKSEEKTQEEHEEIEKRNK

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NMAQYLKEKLNNEIVANKRESKGSSNIQETDEEDEEEEDDDDDDEGEDDGEESEET
 NREEEGKAKEQIRNCENNCQQVTDKAFKEQRDRPEAQEQSEKKISKLDPKKLALDT
 SFLKVSTRPSGNQTDLDGSLRRVRKNDPDMKELNLNNIENIPKEMLLDFVNAMKKNK
 HIKTFSLANVGADENVAFALANMLRENRSITTLNIESNFITGKGIVAIMRCLQFNETLTE
 LRFHNQRHMLGHHAEMEIARLLKANNTLLKMGYHFELPGPRMVVTNLLTRNQDKQR
 QKRQEEQKQQQLKEQKKLIAMLENGLGPPGMWELLGGPKPDSRMQEFFQPPPPR
 PPNPQNVFQSQRSEMMKKPSQAPKYRTDPDSFRVVKLKRIQRKSRMPEAREPPEK
 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 leiomodins 3 [Homo sapiens (human)]

Official Symbol LMOD3

Synonyms LMOD3; leiomodins 3; NEM10; leiomodins-3; leiomodins 3 (fetal); leiomodins, fetal form

Gene ID 56203

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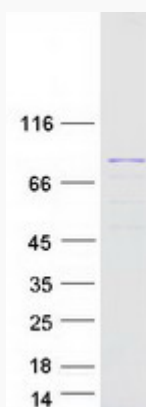
mRNA Refseq NM_198271

Protein Refseq NP_938012

MIM 616112

UniProt ID Q0VAK6

SDS-PAGE



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