

Recombinant Human MYH3 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. MYH3-1840H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MYH3 MS Standard C13 and N15-labeled recombinant protein (NP_002461) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	Myosin is a major contractile protein which converts chemical energy into mechanical energy through the hydrolysis of ATP. Myosin is a hexameric protein composed of a pair of myosin heavy chains (MYH) and two pairs of nonidentical light chains. This gene is a member of the MYH family and encodes a protein with an IQ domain and a myosin head-like domain. Mutations in this gene have been associated with two congenital contracture (arthrogryposis) syndromes, Freeman-Sheldon syndrome and Sheldon-Hall syndrome.
Molecular Mass	224.4 kDa
AA Sequence	MSSDTEMEVFGIAAPFLRKSEKERIEAQNPFDKTYCFVVDSSKEEYAKGKIKSSQD GKVTVETEDNRTLTVVKPEDVYAMNPPKFDRIEDMAMLTNLNEPAVLNLIKDRYTSW MIYTYSGLFCVTVPYKWLVPVYNPEVVEGYRGKKRQEAPPHIFSISDNAYQFMLTDR ENQSILITGESGAGKTVNTKRVIQYFATIAATGDLAKKKDSKMGKTLEDQIISANPLLE AFGNAKTVRNDNSSRFGKFIRIHFGTTGKLASADIETYLLEKSRVTFQLKAERSYHIFY QILSNKKPELIELLLITNPYDYPFISQGEILVASIDDAEELLATDSIDILGFTPEEKSGL

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YKLTGAVMHYGNMFKQKQREEQAEPDGTEVADKTAYLMGLNSSDLLKALCFPRV
KVGNEYVTKGQTVDDQVHHAVNALSKSVYEKFLWMVTRINQQLDTKLPRQHFIGVL
DIAGFEIFEYNSLEQLCINFTNEKLQQFFNHHMFVLEQEEYKKEGIEWTFIDFGMDLA
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KKVAKKKGSSFQTVSALFRENLNKLMSNLRTHPHFVRCIIPNETKTPGAMEHSLVL
HQLRCNGVLEGIRICRKGFPNRILYGDFKQRYRVLNASAIPEGQFIDSKKACEKLLASI
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TEELSGLDETIAKLTREKKALQEAHQALDDLQAEEDKVNSLNKTKSKLEQQVEDLE
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KVEDEQTLGLQFQKKIKELQARIEELEEIEAERATRAKTEKQRSYARELEELSERL
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DNLQRVKQKLEKEKSEFKLEIDDLSSSMESVSKSKANLEKICRTLEDQLSEARGKNE
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TDAIQRTEEELEAKKKLAQRLQDSEEQVEAVNAKCASLEKTKQRLQGEVEDLMVDV
ERANSLAAALDKKQRNFDKVLAEWTKCEESQAELEASLKESRSLSTELFKLNAYE
EALDQLETVKRENKNLEQEIADLTEQIAENGKTIHELEKSRKQIELEKADIQLALEEAE
AALEHEEAKILRIQLELTQVKSEIDRKIAEKDEEIEQLKRNRYQRTVETMQSALDAEVRS
RNEAIRLKKKMEGDLNEIEIQLSHANRQAAETLKHLSVQGQLKDTQLHLDDALRGQ
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LERMKNLEQTVKDLQHRLEAEQLALKGGKKQIQKLETRIREFELEGEQKKNTE
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HLTKFRKAQHELEEAERADIAESQVNKLRAKTRDFTSSRMVVHESEETRTRPLEQK
LISEEDLAANDILDYKDDDDKV

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.

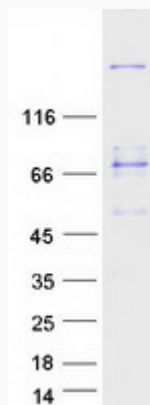
GENE INFORMATION

Gene Name	MYH3 myosin heavy chain 3 [Homo sapiens (human)]
Official Symbol	MYH3
Synonyms	MYH3; myosin, heavy chain 3, skeletal muscle, embryonic; myosin-3; myosin, skeletal, heavy chain, embryonic 1; myosin heavy chain, fast skeletal muscle, embryonic; myosin, heavy polypeptide 3, skeletal muscle, embryonic; HEMHC; SMHCE; MYHSE1; MYHC-EMB;
Gene ID	4621
mRNA Refseq	NM_002470
Protein Refseq	NP_002461
MIM	160720
UniProt ID	P11055

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SDS-PAGE

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