

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

Cat. No. DMD-2735H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

DMD MS Standard C13 and N15-labeled recombinant protein (NP_004009) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.

Species

Human

Source

HEK293

Description

This gene spans a genomic range of greater than 2 Mb and encodes a large protein containing an N-terminal actin-binding domain and multiple spectrin repeats. The encoded protein forms a component of the dystrophin-glycoprotein complex (DGC), which bridges the inner cytoskeleton and the extracellular matrix. Deletions, duplications, and point mutations at this gene locus may cause Duchenne muscular dystrophy (DMD), Becker muscular dystrophy (BMD), or cardiomyopathy. Alternative promoter usage and alternative splicing result in numerous distinct transcript variants and protein isoforms for this gene.

Molecular Mass

70.6 kDa

AA Sequence

MREQLKGHETQTTTCWDHPKMTELYQSLADLNNVRFSA YRTAMKLRRLQKALCLDLL
 SLAACDALDQHNLKQNDQPM DILQIINCLTTIYDRLEQEHNNLVNPLCVD MCLNW
 LLNVYDTGRTGRIRVLSFKTGIISLCKAHLEDKYRYL FKQVASSTGFCDQRRLG LLLLH
 DSIQIPRQLGEVASFGGSNIEPSVRSCFQFANNKPEIEAALFLDWMRLEPQSMVWLP
 VLHRVAAAETAKHQAKCNICKECPIIGFRYRSLKHFNYDICQSCFFSGRVAKGHKMH

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YPMVEYCTPTTSGEDVRDFAKVLKNKFRTRKRYFAKHPRMGYLPVQTVLEGDNMET
 PASSPQLSHDDTHSRIEHYASRLAEMENSNGSYLNDISPNESIDDEHLLIQHYCQSL
 NQDSPLSQPRSPAQILISLESEERGELERILADLEEENRNLQAEYDRLKQQHEHKGL
 SPLPSPPEMMPTSPQSPRDAELIAEAKLLRQHKGRLEARMQILEDHKNQLESQHLRL
 RQLLEQPQAEAKVNGTTVSSPSTSLQRS DSSQPMLLRVVGSTSDSMGEEDLLSP
 PQDTSTGLEEVMEQLNNSFPSSRGHNVGSLFHMADDLGRAMESLVSVMTDEEGAE
 TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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 [DMD dystrophin \[Homo sapiens \(human\) \]](#)

Official Symbol [DMD](#)

Synonyms DMD; dystrophin; dystrophin (muscular dystrophy, Duchenne and Becker types), includes DXS142, DXS164, DXS206, DXS230, DXS239, DXS268, DXS269, DXS270, DXS272; BMD; DXS142; DXS164; DXS206; DXS230; DXS239; DXS268; DXS269; DXS270; DXS272; muscular dystrophy; Duchenne and Becker types; CMD3B;

Gene ID [1756](#)

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mRNA Refseq	NM_004018
Protein Refseq	NP_004009
MIM	300377
UniProt ID	P11532

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