

Recombinant Human GEMIN5 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. GEMIN5-5426H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	GEMIN5 MS Standard C13 and N15-labeled recombinant protein (NP_056280) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a WD repeat protein that is a component of the survival of motor neurons (SMN) complex. The SMN complex plays a critical role in mRNA splicing through the assembly of spliceosomal small nuclear ribonucleoproteins (snRNPs), and may also mediate the assembly and transport of other classes of ribonucleoproteins. The encoded protein is the snRNA-binding component of the SMN complex. Dysregulation of this gene may play a role in alternative mRNA splicing and tumor cell motility. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene.
Molecular Mass	168.4 kDa
AA Sequence	MGQEPRTLPPSPNWYCARCSDAVPGGLFGFAARTSVFLVRVGPAGESPGTPPFR VIGELVGHTERVSGFTFSHHPGQYNLCATSSDDGTVKIWDVETKTVVTEHALHQHTI STLHWSPRVKDLIVSGDEKGVVFCYWFNRNDSQHLFIEPRTIFCLTCSPHHEDLVAI GYKDGIVVIIDISKKGEVIHRLRGHDDEIHSIAWCPLPGEDCLSINQEETSEAEITNGN AVAQAPVTKGCYLATGSKDQTIRIWSCSRGRGVMILKLPFLKRRGGGIDPTVKERLW

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LTLHWPSNQPTQLVSSCFGGELLQWDLTQSWRRKYTLFSASSEGNHRSRIVFNLCP
 LQTEDDKQLLLSTSMRDRVKCWDIATLECSWTLP SLGGFAYSLAFSSVDIGSLAIGV
 GDGMIRVWNTLSIKNNYDVKNFWQGVKSKVTALCWHPTKEGCLAFGTDDGKVGLY
 DTYSNKPPQISSTYHKKT VYTLAWGPPVPPMSLGGEGDRPSLALYSCGGEGIVLQH
 NPWKLSGEAFDINKLIRD TNSIKYKLPVHTEISWKADGKIMALGNEDGSIEIFQIPNLKL
 ICTIQQHHKLVNTISWHHEHGSQPELSYLMASGSNNAVIYVHNLKTVIESSPESPVTIT
 EPYRTLSGHTAKITSVAWSPHHDGRLVSASYDGTAQVWDALREEPLCNFRGHRGR
 LLCVAWSPLDPDCIYSGADDFCVHKWLTSMQDHSRPPQGKKSIELEKKRLSQPKAK
 PKKKKKPTLRTPVKLESIDGNEEESMKENSGPVENGVS DQEGEEQAREPELPCGLA
 PAVSREPVICTPVSSGFESKVTINN KVILLKKEPPKEK PETLIKKRKARSLLPLSTSLD
 HRSKEELHQDCLVLATAKHSRELNEDVSADVEERFHLGLFTDRATLYRMIDIEGKGH
 LENGHPELFHQLMLWKGD LKGVLTAAERGELTDNLVAMAPAAGYHVWLWAVEAF
 AKQLCFQDQYVKAASHLLSIHKVYEAVELLKSNH FYREAIAIAKARLRPEDPVLKDLYL
 SWGTVLERDGHYAVAAKCYLGATCAYDAAKVLAKKGDAASLR TAAELAAIVGEDEL
 SASLALRCAQELL LANNWVGAQEALQLHESLQGQRLVFCLLELLSRHLEEKQLSEG
 KSSSYHTWNTGTGEGPFVERVTAVWKSIFSLDTPEQYQEA FQKLQNIKYP SATNNT
 PAKQLLLHICHDLT LAVLSQQMASWDEAVQALLRAVVR SYDSGSFTIMQEVYSAFLP
 DGCDHLRDKLGDHQSPATPAFKSLEAFFLYGRLYEFWWSLSRPCPNSSVWVRAGH
 RTL SVEPSQQLDTASTEETDPETSQPEPNRPSELDLRLTEEGERMLSTFKELFSEKH
 ASLQNSQRTVAEVQETLAEMIRQH QKSQ LCKSTANGPDKNEPEVEAEQPLCSSQS
 QCKEEKNEPLSLPELTKRLTEANQRMAKFPESIKAWPFPDVLECCLVLLIRSHFPGC
 LAQEMQQQAQELLQKYGNTKTYRRHCQTF CMTRTRPLEQKLISEEDLAANDILDYK
 DDDDKV

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.

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Concentration	50 µg/mL as determined by BCA
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Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.
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GENE INFORMATION

Gene Name	GEMIN5 gem nuclear organelle associated protein 5 [Homo sapiens (human)]
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Official Symbol	GEMIN5
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Synonyms	GEMIN5; gem (nuclear organelle) associated protein 5; gem-associated protein 5; GEMIN-5; MGC142174; DKFZp586M1824;
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Gene ID	25929
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mRNA Refseq	NM_015465
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Protein Refseq	NP_056280
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MIM	607005
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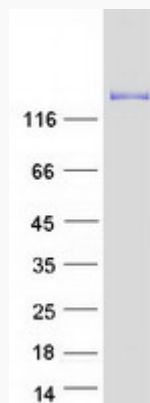
UniProt ID	Q8TEQ6
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SDS-PAGE



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