

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

Cat. No. MTOR-4973H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MTOR MS Standard C13 and N15-labeled recombinant protein (NP_004949) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	The protein encoded by this gene belongs to a family of phosphatidylinositol kinase-related kinases. These kinases mediate cellular responses to stresses such as DNA damage and nutrient deprivation. This protein acts as the target for the cell-cycle arrest and immunosuppressive effects of the FKBP12-rapamycin complex. The ANGPTL7 gene is located in an intron of this gene.
Molecular Mass	288.7 kDa
AA Sequence	<p>MLGTGPAATAATTSSNVSVLQQFASGLKSRNEETRAKAAKELQHYVTMELREMS QEESTRFYDQLNHHIFELVSSSDANERKGGILAIASLIGVEGGNATRIGRFANYLRNLL PSNDPVMEMASKAIGRLAMAGDTFTA EYVEFEVKRALEWLGADRNEGRRHA AVL VLRELAISVPTFFFQVQPFFDNIFVAVWDPKQAIREGAVAALRACLILTQREP KEM QKPQWYRHTFEEAEKGFDETLAKEKGMNRDDRIHGALLILNELVRISSMEGERLREE MEEITQQQLVHDKYCKDLMGFGTKPRHITPFTSFQAVQPQSNALVGLLGYSSHQG LMGFGTSPSPAKSTLVESRCCRDLMEEKFDQVCQWVLKCRNSKNSLIQMTILNLLP RLAAFRPSAFTDTQYLQDTMNHVLSVCVKEKERTAAFQALGLLSVAVRSEFKVYLPR</p>

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VLDIIRAALPPKDFAHKRQKAMQVDATVFTCISMLARAMGPGIQQDIKELLEPMLAVG
LSPALTAVLYDLRQIPQLKKDIQDGLLKMLSLVLMHKPLRHPGMPKGLAHQLASPG
LTTLPEASDVGSITLALRTLGSFEFEGHSLTQFVRHCADHFLNSEHKEIRMEAARTCS
RLLTPSIHLISGHAHVVSQTAVQVVADVLSKLLVVGITDPDPDIRYCVLASLDERFDAH
LAQAENLQALFVALNDQVFEIRELAICTVGRSSMNPFAVMPFLRKMLIQILTELEHSG
IGRIKEQSARMLGHLVSNAPRLIRPYMEPILKALILKLDKDPDPDPNPGVINNVLATIGEL
AQVSGLEMRKWVDELFIIMDMLQDSSLLAKRQVALWTLGQLVASTGYVVEPYRKYP
TLLEVLLNFKTEQNQGTRREAIRVLGLLGALDPYKHKNIGMIDQSRDASAVSLSSES
KSSQDSSDYSTSEMLVNMGNLPLDEFYPAVSMVALMRIFRDQSLSHHHTMVVQAIT
FIFKSLGLKCVQFLPQVMPTFLNVIRVCDGAIREFLFQQLGMLVSFVKSHIRPYMDEIV
TLMREFWVMNTSIQSTIILLIEQIVVALGGFEKLYLPQLIPHMLRVFMHDNSPGRIVSIK
LLAAIQLFGANLDDYLHLLLPIVKLFDAPPEAPLPSRKALETVDRLTESLDFTDYASRI
IHPIVRTLDQSPELRSTAMDTLSSLVFQLGKKYQIFIPMVNKVLRHRINHQRVDVIC
RIVKGYTLADEEEDPLIYQHRMLRSGQGDALASGPVETGPMKKLHVSTINLQKAWG
AARRVSKDDWLEWLRRLSLELLKDSSSPSLRSCWALAQAYNPMARDLFNAAFVSC
WSELNEDQQDELIRSIELALTSQDIAEVTQTLLNLAEFMEHSDKGPLPLRDDNGIVLL
GERAAKCRAYAKALHYKELEFQKGPPTAILESISINNKLQQPEAAAGVLEYAMKHFG
ELEIQATWYEKLHEWEDALVAYDKKMDTNKDDPELMLGRMRCLEALGEWGQLHQQ
CCEKWTLVNDQAKMARMAAAAWGLGQWDSMEEYTCMIPRDTHDGAFYRAVL
ALHQDLFSLAQQCIDKARDLLDAELTAMAGESYSRAYGAMVSCHMLSELEEVIQYKL
VPERREIIRQIWWERLQGCQRIVEDWQKILMVRSLVSPHEDMRTWLKYASLCGKS
GRLALAHKTLVLLLVGVDPSRQLDHPVHPQVTYAYMKNMWKSARKIDAFQHMQH
FVQTMQQQAQHAIAATEDQQHKQELHKL MARCFLKLGWQLNLQGINESTIPKVLQY
YSAATEHDRSWYKAWHAWAVMNF EAVLHYKHQNQARDEKKKLRHASGANITNATT
AATTAATATTTASTE GSNSESEAESTENSPTPSPLQKKVTEDLSKTLLMYTVPVAVQG
FFRSISLSRGNLQDTRLRVTLWFDYGHWPDVNEALVEGVKAIQIDTWLQVIPQLIAR
IDTPRPLVGRLIHQLLTDIGRYHPQALIYPLTVASKSTTTARHNAANKILKNMCEHSNT
LVQQAMMVSEELIRVAILWHEMWHEGLEEASRLYFGERNVKG MFEVLEPLHAMME
RGPQTLKETSFNQAYGRDLMEAEWCRKYMKSGNVKDLTQAWDLYYHVFRISKQ
LPQLTSLELQYVSPKLLMCRDLELAVPGTYDPNQPIIRIQSIAPSLQVITSKQRPRKLT

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MGSNGHEFVFLKGGHEDLRQDERVMQLFGLVNTLLANDPTSLRKNLSIQRYAVIPLS
 TNSGLIGWVPHCDTLHALIRDYREKKKILLNIEHRIMLRMAPDYDHLTLMQKVEVFEH
 AVNNTAGDDLAKLLWLKSPSSEVWFDRRTNYTRSLAVMSMVG YILGLGDRHPSNL
 MLDRLSGKILHIDFGDCFEVAMTREKFPEKIPFRLTRMLTNAMEVTGLDGNRYRITCHT
 VMEVLREHKDSVMAVLEAFVYDPLLNWRLMDTNTKGNKRSRTRTDSYSAGQSVEIL
 DGVELGEPAHKKTGTTVPESIHSGFDGLVKPEALNKKAIQIINRVRDKLTGRDFSHD
 DTLDVPTQVELLIKQATSHENLCQCYIGWCPFWTRTRPLEQKLISEEDLAANDILDYK
 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.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	MTOR mechanistic target of rapamycin kinase [Homo sapiens (human)]
Official Symbol	MTOR
Synonyms	MTOR; mechanistic target of rapamycin (serine/threonine kinase); FK506 binding protein 12 rapamycin associated protein 1, FRAP, FRAP1, FRAP2; serine/threonine-protein kinase mTOR; dJ576K7.1 (FK506 binding protein 12 rapamycin associated protein 1); FK506 binding protein 12 rapamycin associated protein 2; FKBP rapamycin associated protein; FKBP12 rapamycin complex associated protein 1;

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FLJ44809; mammalian target of rapamycin; RAFT1; rapamycin and FKBP12 target 1; rapamycin associated protein FRAP2; rapamycin target protein; RAPT1; rapamycin target protein 1; FKBP-rapamycin associated protein; FKBP12-rapamycin complex-associated protein 1; FK506 binding protein 12-rapamycin associated protein 1; FK506 binding protein 12-rapamycin associated protein 2; FK506-binding protein 12-rapamycin complex-associated protein 1; FRAP; FRAP1; FRAP2;

Gene ID [2475](#)

mRNA Refseq [NM_004958](#)


Protein Refseq [NP_004949](#)

MIM [601231](#)

UniProt ID [P42345](#)

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