

## Recombinant Human MTOR

Cat. No. MTOR-30254TH Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant fragment of Human mTOR with proprietary tag at the N terminal; Predicted MW 36.63 kDa, inclusive of tag.
<b>Species</b>	Human
<b>Source</b>	Wheat Germ
<b>ProteinLength</b>	100 amino acids
<b>Description</b>	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.
<b>Molecular Weight</b>	36.630kDa inclusive of tags
<b>Tissue specificity</b>	Expressed in numerous tissues, with highest levels in testis.
<b>Form</b>	Liquid
<b>Purity</b>	Proprietary Purification
<b>Storage buffer</b>	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl

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<b>Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
<b>Sequences of amino acids</b>	WGLGQWDSMEEYTCMIPRDTHDGAFYRAVLALHQDLFSLAQQCIDKARDLLDAELT AMAGESYSRAYGAMV SCHMLSELEEV IQYKLVPERREIIRQIWW
<b>Sequence Similarities</b>	Belongs to the PI3/PI4-kinase family.Contains 1 FAT domain.Contains 1 FATC domain.Contains 7 HEAT repeats.Contains 1 PI3K/PI4K domain.

## GENE INFORMATION

<b>Gene Name</b>	MTOR mechanistic target of rapamycin (serine/threonine kinase) [ Homo sapiens ]
<b>Official Symbol</b>	MTOR
<b>Synonyms</b>	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
<b>Gene ID</b>	2475
<b>mRNA Refseq</b>	NM_004958
<b>Protein Refseq</b>	NP_004949
<b>MIM</b>	601231
<b>Uniprot ID</b>	P42345
<b>Chromosome</b>	1p36

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<b>Location</b>	
<b>Pathway</b>	AMPK signaling, organism-specific biosystem; Acute myeloid leukemia, organism-specific biosystem; Acute myeloid leukemia, conserved biosystem; Adaptive Immune System, organism-specific biosystem; Adipocytokine signaling pathway, organism-specific biosystem;
<b>Function</b>	ATP binding; RNA polymerase III type 1 promoter DNA binding; RNA polymerase III type 2 promoter DNA binding; RNA polymerase III type 3 promoter DNA binding; TFIIC-class transcription factor binding;

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