

Recombinant Human MTOR, MYC/DDK-tagged

Cat. No. MTOR-156H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human MTOR, fused with C-terminal MYC/DDK, was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	1-2549 aa
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
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration	>50 ug/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

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Gene Name	MTOR mechanistic target of rapamycin (serine/threonine kinase) [Homo sapiens (human)]
Official Symbol	MTOR
Synonyms	MTOR; FRAP; FRAP1; FRAP2; RAFT1; RAPT1; mechanistic target of rapamycin (serine/threonine kinase); serine/threonine-protein kinase mTOR; rapamycin target protein 1; mammalian target of rapamycin; rapamycin and FKBP12 target 1; FKBP-rapamycin associated protein; rapamycin associated protein FRAP2; FKBP12-rapamycin complex-associated protein 1; FK506 binding protein 12-rapamycin associated protein 2; FK506-binding protein 12-rapamycin complex-associated protein 1; NP_004949.1; EC 2.7.1.1; EC 2.7.11.1
Gene ID	2475
mRNA Refseq	NM_004958
Protein Refseq	NP_004949
MIM	601231
UniProt ID	P42345
Chromosome Location	1p36.2
Pathway	Acute myeloid leukemia; Alpha6-Beta4 Integrin Signaling Pathway; Class I PI3K signaling events mediated by Akt
Function	ATP binding; RNA polymerase III type 1 promoter DNA binding; TFIIC-class transcription factor binding

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