

## mTOR Protein, Human, Recombinant (His)

### General Information

Synonyms:	FKBP12-rapamycin complex-associated protein;FRAP;MTOR;Mechanistic target of rapamycin; FRAP2;RAFT1;FK506-binding protein 12-rapamycin complex-associated protein 1;RAP1; FRAP1;Serine/threonine-protein kinase mTOR;Rapamycin and FKBP12 target 1;Mammalian target of rapamycin (mTOR)
Protein Construction:	2012-2144 aa
Species:	Human
Expression Host:	E. coli
Accession:	P42345
Molecular Weight:	22.7 kDa (predicted)
AA Sequence:	VSEELIRVAILWHEMWHEGLEEASRLYFGERNVKGMFEVLEPLHAMMERGPQTLKETSFNQAYGRDLMEAQ EWCRKYMKSGNVKDLTQAWDLYYHVFRRISKQLPQLTSLELQYVSPKLLMCRDLELAVPGTY

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a 0.2 μm sterile filtered PBS, 6% Trehalose, pH 7.4.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

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