

## Recombinant human MTOR protein, N-His

Catalog Number: bs-42341P

Concentration: >1mg/ml

Species: Human

AA Seq: 1-300/2549

Predicted MW: 36.1

Tags: N-His

Endotoxin: Not analyzed

Purity: >90% as determined by SDS-PAGE

Purification: AC

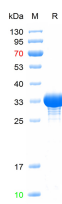
Form: Liquid

Storage: 20mM Tris-HCl (pH=8.0) with 2M Urea.

Stored at -70°C or -20°C. Avoid repeated freeze/thaw cycles.

**Background:** mTOR is one of a family of proteins involved in cell cycle progression, DNA recombination, and DNA damage detection. In rat, it is a 289-kDa protein (symbolized RAFT1) with significant homology to the *Saccharomyces cerevisiae* protein TOR1 and has been shown to associate with the immunophilin FKBP12 in a rapamycin dependent fashion. The FKBP12-rapamycin complex is known to inhibit progression through the G1 cell cycle stage by interfering with mitogenic signaling pathways involved in G1 progression in several cell types, as well as in yeast. The binding of FRAP to FKBP12-rapamycin correlated with the ability of these ligands to inhibit cell cycle progression.

### VALIDATION IMAGES



The purity of the protein is greater than 85% as determined by reducing SDS-PAGE.