

**AR51611PU-S****Human LAMTOR4 (1-99, His-tag) - Purified****Alternate names:**

C7orf59, Ragulator complex protein LAMTOR4

**Quantity:**

20 µg

**Concentration:**

0.25 mg/ml (determined by Bradford assay)

**Background:**

LAMTOR4 is involved in amino acid sensing and activation of mTORC1, a signaling complex promoting cell growth in response to growth factors, energy levels, and amino acids. Activated by amino acids through a mechanism involving the lysosomal V-ATPase, the Ragulator functions as a guanine nucleotide exchange factor activating the small GTPases Rag. Activated Ragulator and Rag GTPases function as a scaffold recruiting mTORC1 to lysosomes where it is in turn activated.

**Uniprot ID:**[Q0VGL1](#)**NCBI:**[NP\\_001008396](#)**GeneID:**[389541](#)**Species:**

Human

**Source:**

E. coli

**Format:****State:** Liquid purified protein**Purity:** >85% by SDS - PAGE**Buffer System:** 20 mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT**Description:**

Recombinant human LAMTOR4 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

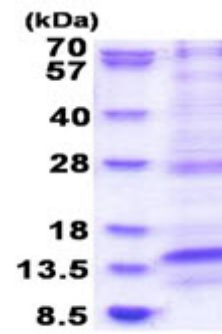
**AA Sequence:**MGSSHHHHHH SSGLVPRGSH MGSMTSALTQ GLERIPDQLG YLVLSEGA VL ASSGDLENDE  
QAASAISELV STACGFR LHR GMNVPFKRLS VVFGHEHTLLV TVSGQRV FVV KRQNRGREPI DV**Molecular weight:** 13.1 kDa (122aa) confirmed by MALDI-TOF**Storage:**

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

**General Readings:**

Bar-Peled L., et al. (2011) Cell. 150:1196-1208 Burkard T.R., et al. (2012) BMC Syst. Biol. 5:17-17

Pictures:



15% SDS-PAGE (3ug)