

Recombinant human LAMTOR4 protein

Catalog Number: ATGP2791

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-99aa

UniProt No.

Q0VGL1

NCBI Accession No.

NP_001008396

Alternative Names

Ragulator complex protein LAMTOR4, C7orf59

PRODUCT SPECIFICATION

Molecular Weight

13.1 kDa (122aa) confirmed by MALDI-TOF

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT

Purity

> 85% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

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

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Amino acid Sequence

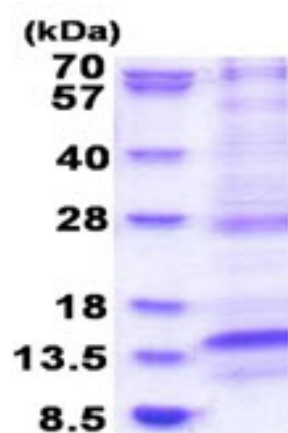
MGSSHHHHHH SSSLVPRGSH MGSMTSALTQ GLERIPDQLG YLVLSEGAVL ASSGDLENDE QAASAISELV STACGFRLHR
GMNVPFKRLS VVFGHEHTLLV TVSGQRVFFV KRQNRGREPI DV

General References

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

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)