9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
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LAMTOR4 Human

LAMTOR4 Human Recombinant
RCP1222

Product Overview

Name	LAMTOR4 Human
Description	
LAMTOR4 Human Recombinant	
Accession (Primary)	Q0VGL1
Synonyms	
Late Endosomal/Lysosomal Adaptor, MAPK And MTOR Activator 4, C7orf59, Late Endosomal/Lysosomal Adaptor And MAPK And MTOR Activator 4, Chromosome 7 Open Reading Frame 59, Ragulator Complex Protein LAMTOR4, UPF0539 Protein C7orf59, LAMTOR4.	
Introduction	
LAMTOR4 is implicated in amino acid sensing and activation of mTORC1, which is a signaling complex promoting cell growth in response to growth factors, energy levels, and amino acids. LAMTOR4 is activated by amino acids via a mechanism which involves the lysosomal V-ATPase, the Ragulator functions as a guanine nucleotide exchange factor activating the small GTPases Rag. Activated Ragulator and Rag GTPases both function as a scaffold recruiting mTORC1 to lysosomes where it is sequentially activated.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered colorless solution.	
Formulation	
LAMTOR4 protein solution (0.25mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 10% glycerol and 1mM DTT.	
Stability	
Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.	
Purity	
Greater than 85.0% as determined by SDS-PAGE.	
Amino acid sequence	
MGSSHHHHHH SSGLVPRGSH MGS MTSALTQ GLERIPDQLG YLVLSEGAVL ASSGDLENDE QAASAISELV	

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STACGFRLHR GMNVPFKRLS VVFGEHTLLV TVSGQRVFVV KRQNRGREPI DV.

Precautions

LAMTOR4 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q0VGL1)