
Product Data Sheet

Product Name: LAMTOR4 Human

Cat. No.: GP23797

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Late Endosomal/Lysosomal Adaptor; MAPK And MTOR Activator4; C7orf59; Late Endosomal/Lysosomal Adaptor And MAPK And MTOR Activator 4; Chromosome7 Open Reading Frame 59; Ragulator Complex Protein LAMTOR4; UPF0539 ProteinC7orf59; LAMTOR4.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSMTSALTQ GLERIPDQLG YLVLSEGA VL ASSGDLENDE QAASAISELVSTACGFRLHR GMNVPFKRLS VVFGEHTLLV TVSGQRVFFV KRQNRGREPI DV.		
Formulation	LAMTOR4 protein solution (0.25mg/ml) containing 20mMTris-HCl buffer (pH 8.0), 0.15M NaCl, 10% glycerol and 1mM DTT.		

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.

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.

Background

LAMTOR4 Human Recombinant produced in E. Coli is a single, non-glycosylated polypeptide chain containing 122 amino acids (1-99 a.a) and having a molecular mass of

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13.1kDa.LAMTOR4 is fused to a 23 amino acid His-tag at N-terminus& purified by proprietary chromatographic techniques.

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