

Animal-Free IL-30/IL-27A Protein, Mouse (His)

Cat. No.:	HY-P700206AF
Synonyms:	IL-27 p28 subunit; IL-27 subunit alpha; IL27; IL-27; IL27A; IL-27-A; IL27p28; IL30; interleukin 27; interleukin 30; interleukin-27 subunit alpha; MGC71873; p28IL-27A
Species:	Mouse
Source:	E. coli
Accession:	Q8K3I6 (F29-S234)
Gene ID:	246779
Molecular Weight:	Approximately 24.51 kDa

PROPERTIES

AA Sequence	<pre> M F P T D P L S L Q E L R R E F T V S L Y L A R K L L S E V Q G Y V H S F A E S R L P G V N L D L L P L G Y H L P N V S L T F Q A W H H L S D S E R L C F L A T T L R P F P A M L G G L G T Q G T W T S S E R E Q L W A M R L D L R D L H R H L R F Q V L A A G F K C S K E E E D K E E E E E E E E E K K L P L G A L G G P N Q V S S Q V S W P Q L L Y T Y Q L L H S L E L V L S R A V R D L L L L S L P R R P G S A W D S </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a solution containing 1X PBS, pH 7.4.
Endotoxin Level	<0.1 EU per 1 µg of the protein by the LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>LAMTOR2, as an integral component of the Ragulator complex, plays a crucial role in amino acid sensing and the activation of mTORC1, a signaling complex pivotal for cell growth regulation in response to various cues such as growth factors, energy levels, and amino acids. Amino acid activation is facilitated by the lysosomal V-ATPase, and the Ragulator complex, acting as both a guanine nucleotide exchange factor (GEF) for small GTPases Rag (RagA/RRAGA, RagB/RRAGB, RagC/RRAGC, and/or RagD/RRAGD) and a mediator for their recruitment to the lysosome membrane. The activated Ragulator and Rag GTPases then serve as a scaffold, recruiting mTORC1 to lysosomes for subsequent activation. LAMTOR2 is part of the Ragulator complex, which also includes LAMTOR1, LAMTOR3, LAMTOR4, and LAMTOR5. The complex interacts with mTORC1, Rag</p>
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GTPases, and the lysosomal amino acid sensor SLC38A9. Additionally, LAMTOR2 participates in the lysosomal folliculin complex (LFC), contributing to cellular signaling pathways involved in growth and nutrient sensing.

Caution: Product has not been fully validated for medical applications. For research use only.

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