

ATL3 Protein, Human (His)

Cat. No.:	HY-P75497
Synonyms:	Atlantin-3; ATL3
Species:	Human
Source:	E. coli
Accession:	Q6DD88 (M1-A445)
Gene ID:	25923
Molecular Weight:	Approximately 52.6 kDa

PROPERTIES

AA Sequence	<pre> M L S P Q R V A A A A S R G A D D A M E S S K P G P V Q V V L V Q K D Q H S F E L D E K A L A S I L L Q D H I R D L D V V V V S V A G A F R K G K S F I L D F M L R Y L Y S Q K E S G H S N W L G D P E E P L T G F S W R G G S D P E T T G I Q I W S E V F T V E K P G G K K V A V V L M D T Q G A F D S Q S T V K D C A T I F A L S T M T S S V Q I Y N L S Q N I Q E D D L Q Q L Q L F T E Y G R L A M D E I F Q K P F Q T L M F L V R D W S F P Y E Y S Y G L Q G G M A F L D K R L Q V K E H Q H E E I Q N V R N H I H S C F S D V T C F L L P H P G L Q V A T S P D F D G K L K D I A G E F K E Q L Q A L I P Y V L N P S K L M E K E I N G S K V T C R G L L E Y F K A Y I K I Y Q G E D L P H P K S M L Q A T A E A N N L A A A A S A K D I Y Y N N M E E V C G G E K P Y L S P D I L E E K H C E F K Q L A L D H F K K T K K M G G K D F S F R Y Q Q E L E E E I K E L Y E N F C K H N G S K N V F S T F R T P A </pre>
Biological Activity	Measured by its ability to catalyze the substrate GTP. The specific activity is 613.47 $\mu\text{M}/\text{min}/\mu\text{g}$, as measured under the described conditions.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/ μg , determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 $\mu\text{g}/\text{mL}$ in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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

ATL3 Protein serves as a GTPase that facilitates membrane tethering by forming trans-homooligomers, thereby mediating homotypic fusion of endoplasmic reticulum (ER) membranes. This pivotal protein plays a crucial role in the biogenesis of the tubular network within the endoplasmic reticulum, contributing to the organization and dynamics of this essential cellular structure. Additionally, ATL3 engages in interactions with specific proteins, such as ZFYVE27 and REEP5, suggesting a network of molecular associations that further modulate its functional role in membrane dynamics and ER architecture.

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

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