

Recombinant Human ATG3 Protein

Catalog Number: PKSH032098

Note: Centrifuge before opening to ensure complete recovery of vial contents.

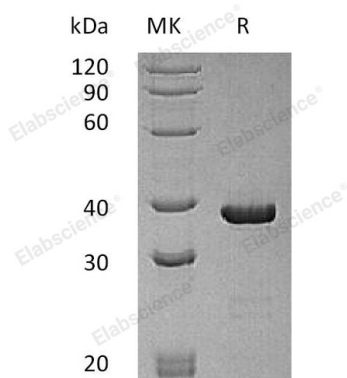
Description

| | |
|----------------------|------------------------------------------------|
| Species | Human |
| Source | E.coli-derived Human ATG3 protein Met 1-Met314 |
| Calculated MW | 36.0 kDa |
| Observed MW | 38 kDa |
| Accession | Q9NT62 |
| Bio-activity | Not validated for activity |

Properties

| | |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Purity | > 95 % as determined by reducing SDS-PAGE. |
| Concentration | Subject to label value. |
| Endotoxin | < 1.0 EU per µg of the protein as determined by the LAL method. |
| Storage | Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles. |
| Shipping | This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C. |
| Formulation | Supplied as a 0.2 µm filtered solution of 20mM Tris-HCl, 150mM NaCl, 10% Glycerol, pH 8.0. |

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Ubiquitin-like-conjugating enzyme ATG3 (ATG3), also known as Apg3L and Apg3p, functions as a regulatory component of autophagosome biogenesis necessary for autophagy. ATG3 exhibits 98% aa sequence identity with both its mouse and rat orthologs. It is widely expressed and has highly levels in heart, skeletal muscle, kidney, liver and placenta. As an E2-like enzyme, involves in autophagy and mitochondrial homeostasis. ATG3 catalyzes the conjugation of ATG8-like proteins to PE which is essential for autophagy. ATG3 also can catalyze the conjugation of ATG12 to itself which plays a role in mitochondrial homeostasis but not in autophagy.