

## ATG9B Protein, Human (HEK293, FLAG)

Cat. No.:	HY-P701358
Synonyms:	ATG9B; Autophagy-related protein 9B; APG9-like 2; Nitric oxide synthase 3-overlapping antisense gene protein; Protein sONE
Species:	Human
Source:	HEK293
Accession:	Q674R7 (M1-D924)
Gene ID:	285973
Molecular Weight:	

### PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of 50 mM Tris-HCl, pH7.5, 200 mM NaCl, 20% glycerol.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	Please use rapid thawing with running water to thaw the protein.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

### DESCRIPTION

Background	ATG9B Protein functions as a phospholipid scramblase crucially involved in autophagy, mediating the expansion of autophagosomal membranes. It dynamically cycles between the preautophagosomal structure/phagophore assembly site (PAS) and the cytoplasmic vesicle pool, acting as a critical supplier of membranes for the growing autophagosome. The lipid scramblase activity of ATG9B is pivotal in the preautophagosomal structure/phagophore assembly process, facilitating the distribution of phospholipids arriving through ATG2 (either ATG2A or ATG2B) from the cytoplasmic leaflet to the luminal leaflet of the bilayer. This activity, in turn, drives the expansion of autophagosomal membranes. Beyond its role in autophagy, ATG9B also participates in necrotic cell death.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA