



ATG3 Recombinant Protein

Cat. No.: 90-321



Ψ Specifications

SPECIES:	Human
SOURCE SPECIES:	E. coli
SEQUENCE:	Recombinant human ATG3 (aa 1-337) fused to a His-tag.
FUSION TAG:	His Tag
TESTED APPLICATIONS:	
APPLICATIONS:	This recombinant proteins is for research use only.

Ψ Properties

PURITY:	>95% (SDS-PAGE)
PHYSICAL STATE:	Lyophilized
BUFFER:	Lyophilized from 20mM TRIS-HCl, pH 8.0, containing 150mM sodium chloride and protease inhibitor (Sigma S8830, 1 x concentration). Reconstitute in 100 µl sterile water. For longer storage addition of 10% glycerol is recommended.
CONCENTRATION:	0.5mg/ml after reconstitution.
STORAGE CONDITIONS:	Stable for at least 1 year after receipt when stored at -20 °C.

OFFICIAL SYMBOL:	ATG3
ALTERNATE NAMES:	Autophagy-related Protein 3, Ubiquitin-like-conjugating Enzyme ATG3, APG3-like, PC3-96
ACCESSION NO.:	NM_022488
PROTEIN GI NO.:	523704483
GENE ID:	64422

Background and References

BACKGROUND:	<p>ATG3 (Autophagy-related protein 3; APG3-like; PC3-96) is an ubiquitous member of the ATG3 family of proteins. It belongs to the autophagin protein family important in autophagy, the biological process which is involved in degradation of endogenous proteins and damaged organelles. ATG3 is an E2-like enzyme involved in the initial stages of autophagocytosis, autophagy and mitochondrial homeostasis. Autophagocytosis is a starvation-induced process responsible for the transport of cytoplasmic proteins to the lysosome/vacuole. It catalyzes the transfer of ATG7-bound ATG8 (LC3; GATE16; GABA-RAP in mammals) to phosphatidylethanolamine, which is essential for autophagy. It acts as an autocatalytic E2-like enzyme, catalyzing the conjugation of ATG12 to itself. The ATG12 conjugation to ATG3 plays a role in mitochondrial homeostasis but not in autophagy.</p>
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