



**Catalog Number:** PR27227

**Product Type:** Recombinant Protein

**Source:** *E. Coli*

**Amino Acid Sequence:** MGSSHHHHHH SSSLVPRGSH MGSMQNVINT VKGKALEVAE YLTPVLKESK FKETGVITPE  
EFVAAGDHLV HHCPTWQWAT GEELKVKAYL PTGKQFLVTK NVPCYKRCKQ MEYSDELEAI  
IEEDDGDGGW VDTYHNTGIT GITEAVKEIT LENKDNIRLQ DCSALCEEEE DEDEGEAADM  
EEYEESGLLE TDEATLDTRK IVEACKAKTD AGGEDAILQT RTYDLYITYD KYYQTPRLWL  
FGYDEQRQPL TVEHMYEDIS QDHVKKTVTI ENHHPHLP PPP MCSVHPCRHA EVMKKIETV  
AEGGGELGVH MYLLIFLKFV QAVIPTIEYD YTRHFTM.

**Description/Molecular Mass:** Autophagy Related 3 (ATG3) is a conjugating enzyme essential for the cytoplasm to vacuole transport (Cvt), autophagy, and mitochondrial homeostasis. ATG3 is localized to the cytoplasm and is expressed in tissues with predominant levels found in kidney, placenta, liver, heart and skeletal muscle. ATG3 catalyze a reaction which is necessary for autophagy. That reaction is the formation of the Atg8-phosphatidylethanolamine (ATG-PE) conjugate.

ATG3 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 337 amino acids (1-314 a.a) and having a molecular mass of 38.3kDa.

ATG3 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

**Purity:** Greater than 85.0% as determined by:  
(a) Analysis by SDS-PAGE.

**Format:** ATG3 protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.1M NaCl and 10% glycerol.

**Storage:** Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### FOR RESEARCH USE ONLY

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Neuromics • 5325 West 74<sup>th</sup> Street, Suite 8 • Edina, MN 55439  
phone 866-350-1500 • fax 612-677-3976 • e-mail [pshuster@neuromics.com](mailto:pshuster@neuromics.com)