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## Product Data Sheet

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Product Name: MAP1LC3A Human  
 Cat. No.: GP23877  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	ATG8E; LC3; LC3A; MAP1ALC3; MAP1BLC3; MLP3A.		
Amino Acid Sequence	MPSDRPFKQR RSFADRCKEV QQIRDQHPSK IPVIIERYKG EKQLPVLDKT KFLVPDHVNM SELVKIIRRR LQLNPTQAFF LLVNQHSMVS VSTPIADIYE QEKDEDGFLY MUYASQETFG LEHHHHHH.		
Formulation	The MAP1LC3A solution (1mg/ml) contains 20mM Tris-HCl pH-8.0, 1mM DTT, 0.1M NaCl & 20% glycerol.		

### Introduction

MAP1LC3A takes part in formation of autophagosomal vacuoles and is one of the light chain subunits that functions together with both MAP1A and/or MAP1B. MAP1LC3A has an important part in neuronal development and in maintaining the balance between neuronal plasticity and rigidity. MAP1LC3A is expressed as two alternatively spliced isoforms that are expressed in testis, brain, heart, liver and skeletal muscle, but are absent in thymus and peripheral blood leukocytes.

### Stability

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.

### Background

MAP1LC3A Recombinant Human produced in E.Coli is a single, non-glycosylated polypeptide chain containing 128 amino acids (1-120 a.a.) and having a molecular mass of 15.1 kDa. The MAP1LC3A is fused to 8 amino acid His-Tag at C-terminus and purified by proprietary chromatographic techniques.

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

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