

## Recombinant Human MAP1LC3A (C-6His)

Catalog No: CE88

<b>Description</b>	Recombinant Human Microtubule-Associated Protein 1 Light Chain 3 alpha is produced by our E.coli expression system and the target gene encoding Met1-Phe121 is expressed with a 6His tag at the C-terminus.
<b>Expression System</b>	E.coli
<b>Alternative name</b>	Microtubule-Associated Proteins 1A/1B Light Chain 3A; Autophagy-Related Protein LC3 A; Autophagy-Related Ubiquitin-Like Modifier LC3 A; MAP1 Light Chain 3-Like Protein 1; MAP1A/MAP1B Light Chain 3 A; MAP1A/MAP1B LC3 A; Microtubule-Associated Protein 1 Light Chain 3 Alpha; MAP1LC3A
<b>Accession No.</b>	Q9H492
<b>Mol Mass</b>	15.3kDa
<b>AP Mol Mass</b>	16kDa, reducing condition
<b>Quality Control</b>	Purity: greater than 95% as determined by reducing SDS-PAGE. Endotoxin: less than 0.1 ng/μg (1 EU/μg) as determined by LAL test.
<b>Formulation</b>	Lyophilized from a 0.2 μm filtered solution of 20mM Tris, 20% Glycerol, 100mM NaCl, pH 8
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100μg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
<b>Storage</b>	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months. Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
<b>Background</b>	Microtubule-Associated Proteins 1A/1B Light Chain 3A (MAP1LC3A) belongs to the MAP1 LC3 family. MAP1LC3A is found most abundantly in the heart, brain, liver, skeletal muscle, and testis. But it is absent in the thymus and peripheral blood leukocytes. MAP1LC3A is thought to take part in the formation of autophagosomal vacuoles and is one of the light chain subunits that functions together with both MAP1A and/or MAP1B. In addition, MAP1A has an important part in neuronal development and in maintaining the balance between neuronal plasticity and rigidity.