Recombinant Human LC3A/B Protein(Trx Tag)

Catalog Number: PDEH100633

Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

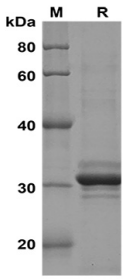
Description

Species	Human
Source	E.coli-derived Human LC3A/B protein His27-Val125, with an N-terminal Trx
Mol_Mass	30.7 kDa
Accession	Q9GZQ8
Bio-activity	Not validated for activity

Properties

Purity	> 90% as determined by reducing SDS-PAGE.
Endotoxin	< 10 EU/mg of the protein as determined by the LAL method
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 ℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with 5% Trehalose and 5% Mannitol.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.5 mg/mL. Concentration is measured by UV-Vis.

Data



SDS-PAGE analysis of Human LC3A/B proteins, 2μg/lane of Recombinant Human LC3A/B proteins was resolved with SDS-PAGE under reducing conditions, showing bands at 31 KD

Background

LC3A, also known as MAP1LC3A, is one of the light chain subunits that function together with both MAP1A and/or MAP1B. MAP1A and MAP1B are microtubule-associated proteins that mediate the physical interactions between microtubules and components of the cytoskeleton. MAP1A and MAP1B each consist of a heavy chain subunit and multiple light chain subunits. As a light chain subunit, 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.

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