

Product Data Sheet

Product Name: ATG4B (human recombinant)

Cat. No.: GC40245

Chemical Properties

Cas. No.

Formula

M.Wt

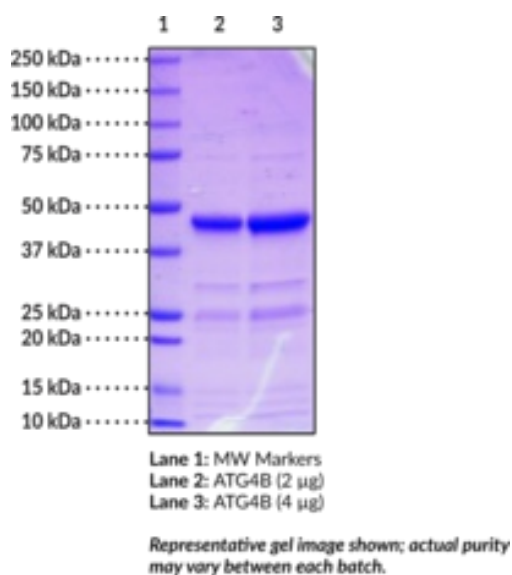
Solubility Soluble in DMSO

Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

Autophagy-related 4B (ATG4B), also known as autophagin-1, is a cysteine protease and a member

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

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of the C54 protease family with dual roles in the progression of autophagy. It catalyzes the irreversible proteolytic cleavage of human homologs of yeast atg8 belonging to the microtubule-associated proteins 1 (MAP1)A/B-light chain 3 (LC3) and the GABA receptor-associated protein (GABARAP) subfamilies, including LC3, GATE16, GABARAP, and ATG8L, to expose a C-terminal glycine residue that is essential to formation of the autophagosome. It also catalyzes the reversible deconjugation of phosphatidylethanolamine from C-terminal glycine lipid-conjugated atg8 homologs. ATG4B expression is increased in CD34+ chronic myeloid leukemia (CML) stem and progenitor cells and knockdown of ATG4B expression increases accumulation of LC3-II and p62, indicating impaired autophagy, and reduces the viability and inhibits proliferation of CD34+ CML cells. Atg4^{-/-} mice exhibit systemic decreases in basal and induced autophagy as well as increased susceptibility to colitis induced by dextran sodium sulfate (DSS) and pulmonary fibrosis induced by bleomycin .

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