Recombinant Candida Glabrata ATG8 Protein (1-116 aa), His-SUMO-tagged

Cat. No. ATG8-1040C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Candida Glabrata (strain ATCC 2001/CBS 138/JCM 3761/NBRC 0622/NRRL Y-65) (Yeast) (Torulopsis glabrata) ATG8 Protein (1-116 aa) is produced by E. coli expression system. This protein is fused with a 6xHis-SUMO tag at the N-terminal. Protein Description: Full Length.
Species	Candida Glabrata
Source	E.coli
ProteinLength	1-116 aa
Description	Ubiquitin-like modifier involved in cytoplasm to vacuole transport (Cvt) vesicles and autophagosomes formation. With ATG4, mediates the delivery of the vesicles and autophagosomes to the vacuole via the microtubule cytoskeleton. Required for selective autophagic degradation of the nucleus (nucleophagy) as well as for mitophagy which contributes to regulate mitochondrial quantity and quality by eliminating the mitochondria to a basal level to fulfill cellular energy requirents and preventing excess ROS production. Participates also in mbrane fusion events that take place in the early secretory pathway. Also involved in endoplasmic reticulum-specific autophagic process and is essential for the survival of cells subjected to severe ER stress. The ATG8-PE conjugate mediates tethering between adjacent mbranes and stimulates mbrane hifusion, leading to expansion of the autophagosomal mbrane during autophagy.

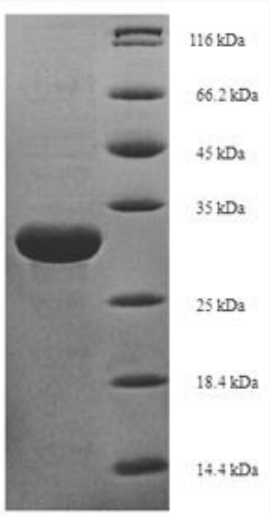
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Form	Tris-based buffer, 50% glycerol
Molecular Mass	29.5 kDa
AA Sequence	MKSSFKSEYPFEKRKAESERISEKFQNRIPVICEKAEKSDIPEVDKRKYLVPADLTVG QFVYVIRKRIMLPPEKAIFIFVNDTLPPTASLMSQVYQEHKDKDGFLYVTYSGENTFG
Purity	> 90% as determined by SDS-PAGE.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.
Concentration	A hardcopy of COA with concentration instruction is sent along with the products.

GENE INFORMATION

UniProt ID	Q6FXR8

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(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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