

Recombinant Mouse BECN1 Protein (1-448 aa), His-SUMO-tagged

Cat. No. BECN1-2059M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse BECN1 Protein (1-448 aa) is produced by E. coli expression system. This protein is fused with a 6xHis-SUMO tag at the N-terminal. Research Area: Epigenetics and Nuclear Signaling. Protein Description: Full Length.
Species	Mouse
Source	E.coli
ProteinLength	1-448 aa
Description	Plays a central role in autophagy (PubMed:10604474, PubMed:12372286, PubMed:19270693). Acts as core subunit of different PI3K complex forms that mediate formation of phosphatidylinositol 3-phosphate and are believed to play a role in multiple membrane trafficking pathways: PI3KC3-C1 is involved in initiation of autophagosomes and PI3KC3-C2 in maturation of autophagosomes and endocytosis (PubMed:19270693, PubMed:25275521). Involved in regulation of degradative endocytic trafficking and required for the abscission step in cytokinesis, probably in the context of PI3KC3-C2 (By similarity). Essential for the formation of PI3KC3-C2 but not PI3KC3-C1 PI3K complex forms (PubMed:25275521). Involved in endocytosis including endosome formation in neuronal cells (PubMed:25275521). May play a role in antiviral host defense (By similarity).
Form	Tris-based buffer, 50% glycerol

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Molecular Mass	67.6 kDa
AA Sequence	MEGSKASSSTMQVSFVCQRCSQPLKLDTSFKILDRVTIQELTAPLLTTAQAKPGETQ EEEANSGEFPFIETRQDGVSRRFIPPARMMSTESANSFTLIGEASDGGTMENLSRRL KVTGDLFDIMSGQTDVDHPLCEECDTLLDQLDTQLNVTENECQNYKRCLEILEQMN EDDSEQLQRELKELALEEERLIQELEDVEKNRKVVAENLEKVQAEAERLDQEEAQY QREYSEFKRQQLELDDELKSVENQVRYAQIQLDKLKKTNVFNATFHIWHSGQFGTIN NFRLGRLPSVPVEWNEINAAWGQTVLLHALANKMGLKFQRYRLVPYGNHSYLESL TDKSKELPLYCSGGLRFFWDNKFHAMVAFLDCVQQFKEEVEKGETRFCLPYRMD VEKGKIEDTGGSGGSYSIKTQFNSEEQWTKALKFMLTNLKWGLAWVSSQFYNK
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 reconstitution instruction is sent along with the products.

GENE INFORMATION

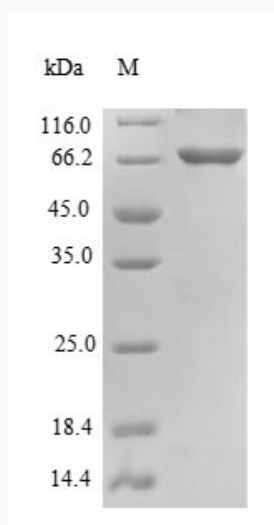
Gene Name	Becn1 beclin 1, autophagy related [Mus musculus]
Official Symbol	BECN1
Synonyms	BECN1; Atg6; MGC6843; 4921513J16Rik; 5430417M23Rik;

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Gene ID	56208
mRNA Refseq	NM_019584
Protein Refseq	NP_062530
UniProt ID	O88597



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