



# Recombinant Mouse Beclin-1 (Becn1)

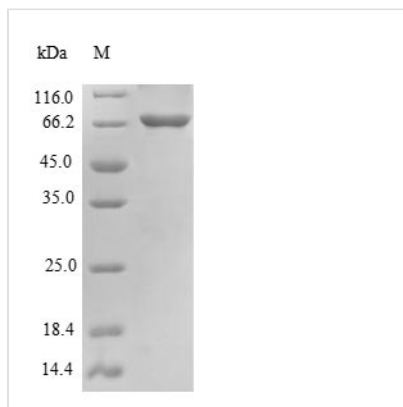
<b>Product Code</b>	CSB-EP002658MO
<b>Relevance</b>	Plays a central role in autophagy (PubMed:10604474, PubMed:12372286, PubMed:19270693). Acts as core subunit of different PI3K complex forms that mediate formation of phosphatidylinositol 3-phosphate and are believed to play a role in multiple membrane 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).
<b>Abbreviation</b>	Recombinant Mouse Becn1 protein
<b>Storage</b>	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°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	O88597
<b>Alias</b>	Coiled-coil myosin-like BCL2-interacting protein
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Mus musculus (Mouse)
<b>Purity</b>	Greater than 90% as determined by SDS-PAGE.
<b>Sequence</b>	MEGSKASSSTMQVSFVCQRCSQPLKLDTSFKILDRVTIQELTAPLLTTAQAKPG ETQEEEANSGEPIETRQDGVSRRFIPPARMMSTESANSFTLIGEASDGGTM ENLSRRLKVTGDLFDIMSGQTDVDHPLCEECDTLLDQLDTQLNVTENECQNY KRCLEILEQMNEEDDSEQLQRELKELALEEERLIQELEDVEKNRQVVAENLEKVV AEAERLDQEEAQYQREYSEFKRQQLDDELKSVENQVRYAQIQLDKLKKTN VFNATFHIWHSGQFGTINNFRLGRLPSVPVEWNEINAAWGQTVLLLHALANKM GLKFQRYRLVPYGNHSYLSLTDKSKELPLYCSGGLRFFWDNKFDHAMVAFL DCVQQFKEEVEKGETRFCLPYRMDVEKGIKIEDTGGSGGSYSIKTQFNSEEQW TKALKFMLTNLKWGLAWVSSQFYNK
<b>Research Area</b>	Epigenetics and Nuclear Signaling
<b>Source</b>	E.coli
<b>Target Names</b>	Becn1
<b>Protein Names</b>	Recommended name: Beclin-1 Alternative name(s): Coiled-coil myosin-like BCL2-interacting protein
<b>Expression Region</b>	1-448aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at



4°C for up to one week.

<b>Tag Info</b>	N-terminal 6xHis-SUMO-tagged
<b>Mol. Weight</b>	67.6kDa
<b>Protein Length</b>	Full Length

**Image**



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

**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

**Shelf Life**

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°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.