

Beclin-1 Protein, Mouse, Recombinant (His & SUMO)

General Information

Synonyms: Becn1; Coiled-coil myosin-like BCL2-interacting protein; Beclin-1

Protein Construction: 1-448 aa

Species: Mouse

Expression Host: E. coli

Accession: O88597

Molecular Weight: 67.6 kDa (predicted)

AA Sequence: MEGSKASSSTMQVSFVCQRCSQPLKLDTSFKILDRVTIQELTAPLLTTAQAKPGETQEEEANSGEPPFIETRQD
GVSRRFIPPARRMMSTESANSFTLIGEASDGGTMENLSRRLKVTGDLDFDIMSGQTDVDHPLCEECDTLLDQLD
TQLNVTENECQNYKRCLILEIQMNEDDSEQLQRELKELALEEERLIQELEDVEKNRKYVAENLEKVQAEAERL
DQEEAQYQREYSEFKRQQLDELKSVENQVRYAQIQDLKTKTNVFNATFHIWHSGQFGTINNFRLGRLP
SVPVEWNEINAAWGQTVLLHALANKMGLKFQRYRLVPYGNHSYLES LTDKSKELPLYCSGGLRFFWDNKF
DHAMVAFLDCVQOFKEEVEKGETRFCLPYRMDVEKGKIEDTGGSGGSYSIKTQFNSEEQWTKALKFMLTNLK
WGLAWVSSQFYNK

QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

Purity: > 90% as determined by SDS-PAGE.

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

A DRUG SCREENING EXPERT

Plays a central role in autophagy. 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. Involved in regulation of degradative endocytic trafficking and required for the abscission step in cytokinesis, probably in the context of PI3KC3-C2. Essential for the formation of PI3KC3-C2 but not PI3KC3-C1 PI3K complex forms. Involved in endocytosis including endosome formation in neuronal cells. May play a role in antiviral host defense.; Beclin-1-C 35 kDa localized to mitochondria can promote apoptosis; it induces the mitochondrial translocation of BAX and the release of proapoptotic factors.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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