BECN1 Lysate – Tissue Lysate

PRODUCT OVERVIEW

Product Name	BECN1, Lysate
Full Product Name	Human BECN1 Protein Lysate
Product Gene Name	BECN1 lysate
Product Synonym Names	BECN1; ATG6; beclin1; VPS30
Host	Human
Form/Format	Lyophilized
Preparation and Storage	Store at -20 degree C Once reconsituted, aliquot and store any remaining material at-20 degree C to avoid repeated freeze-thaw cycles.
Molecular Weight	51,896 Da
OMIM	604378
3D Structure	ModBase 3D Structure for Q14457
Related Product Information for BECN1 lysate	Human BECN1 Protein Lysate 20ug is provided as a Lyophilized powder. This is a Recombinant Protein Lysate produced in HEK293T cells. This protein lysate can be reconsituted using SDS Sample Buffer.
Other Notes	Small volumes of BECN1 lysate vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for BECN1 purchase	MBS137926 is a lysate targeting BECN1. Also known as Human BECN1 Protein Lysate. Host: Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for BECN1. It may not necessarily be applicable to this product.

NCBI GI #	4502395
NCBI GeneID	8678
NCBI Accession #	NP_003757
UniProt Primary Accession #	Q14457
UniProt Secondary Accession #	O75595; Q9UNA8; B2R6N7
UniProt Related Accession #	Q14457
GenBank Nucleotide #	NM_003766
NCBI Official Full Name	beclin-1 isoform a
NCBI Official Synonym Full Names	beclin 1
NCBI Official Symbol	BECN1
NCBI Official Synonym Symbols	ATG6; VPS30; beclin1
UniProt Protein Name	Beclin-1
UniProt Synonym Protein Names	Coiled-coil myosin-like BCL2-interacting protein; Protein GT197

Protein Family	Beclin
UniProt Gene Name	BECN1
UniProt Synonym Gene Names	GT197
UniProt Entry Name	BECN1_HUMAN
NCBI Protein Information	beclin-1
NCBI Summary for BECN1	This gene encodes a protein that regulates autophagy, a catabolic process of degradation induced by starvation. The encoded protein is a component of the phosphatidylinositol-3-kinase (PI3K) complex which mediates vesicle-trafficking processes. This protein is thought to play a role in multiple cellular processes, including tumorigenesis, neurodegeneration and apoptosis. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2015]
UniProt Comments for BECN1	beclin 1: an essential autophagy protein that has been linked to multiple processes including tumor suppression, protection against some cardiac and neurological degenerative diseases, and lifespan extension. A ubiquitous protein of the beclin family. Is part of the class III PI3K complex that induces autophagy. Expressed at elevated levels in dendrites and cell bodies of cerebellar Purkinje cells. Interacts with the anti-apoptotic protein Bcl-2, which inhibits autophagy when it is present in the endoplasmic reticulum. The dissociation of ATG6 from Bcl-2 is essential for its autophagic activity. Interacts with PITC and GluR-delta2. Probably forms a complex with AMBRA1 and PIK3C3. Plays a role in antiviral host defense. Protects against infection by a neurovirulent strain of Sindbis virus. Protein type: Adaptor/scaffold; Autophagy; Membrane protein, peripheral Chromosomal Location of Human Ortholog: 17q21 Cellular Component: extrinsic to membrane; mitochondrion; endoplasmic reticulum; cytoplasmic membrane-bound vesicle; dendrite; phagocytic vesicle; trans-Golgi network; nucleus; endosome Molecular Function: protein binding; phosphoinositide 3-kinase binding Biological Process: response to drug; viral reproduction; late endosome to vacuole transport; cytokinesis; CVT pathway; cellular response to nitrogen starvation; negative regulation of cell proliferation; response to vitamin E; lysosome organization and biogenesis; regulation of catalytic activity; beta-amyloid metabolic process; mitochondrion degradation; response to hypoxia; cellular defense response; neuron development; defense response to virus; positive regulation of macroautophagy; positive regulation of autophagy; negative regulation of apoptosis; autophagic vacuole formation
Research Articles on BECN1	**1.** autophagy induction stabilized microtubules by degrading SCG10, a microtubule disassembly protein in neurons. In mice with spinal cord injury, local administration of a specific autophagy-inducing peptide, Tat-beclin1, to lesion sites markedly attenuated axonal retraction of spinal dorsal column axons and cortical spinal tract and promoted regeneration of descending axons following long-term observation
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/lysate/becn1/137926