

Recombinant Human beclin 1, autophagy related, His-tagged

Cat. No. BECN1-377H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	BECN1, 1-450aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-450 a.a.
Description	BECN1, also as known as Beclin-1 and autophagy-related gene (Atg) 6, belongs to the beclin family. This protein plays a central role in autophagy. Beclin-1 and its binding partner class III phosphoinositide 3-kinase (PI3K), also named Vps34, are required for the initiation of the formation of the autophagosome in autophagy. Also it required for the abscission step of cytokinesis. BECN1 plays a role in antiviral host defense. Recombinant human BECN1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by conventional column chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.5) containing 0.1M NaCl, 10% glycerol, 1mM DTT
Molecular Mass	54.1 kDa (470aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MEGSKTSNNS TMQVSFVCQR CSQPLKLDTS FKILDRVTIQ ELTAPLLTTA QAKPGETQEE ETNSGEEPFI ETPRQDGVSR RFIPPARMMS TESANSFTLI GEASDGGTME NLSRRLKVTG DLFDIMSGQT

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DVDHPLCEEC TDLLDQLDT QLNVTENECQ NYKRCLEILE QMNEDDSEQL
 QMELKELALE EERLIQELED VEKNRKIVAE NLEKVQAEAE RLDQEEAQYQ
 REYSEFKRQQ LELDDELKSV ENQMRYAQTQ LDKLKKTNVF NATFHIWHSQ
 QFGTINNFRLL GRLPSVPVEW NEINAAWGQT VLLHALANK MGLKFQRYRL
 VPYGNHSTYLE SLTDKSKELP LYCSGGLRFF WDNKFDHAMV AFLDCVQQFK
 EEVEKGETRF CLPYRMDVEK GKIEDTGGSG GSYSIKTQFN SEEQWTKALK
 FMLTNLKWGL AWWSSQFYNK

Purity >85% by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 0.25 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [BECN1 beclin 1, autophagy related \[Homo sapiens \]](#)

Official Symbol BECN1

Synonyms BECN1; beclin 1, autophagy related; beclin 1 (coiled coil, moesin like BCL2 interacting protein); beclin-1; ATG6; ATG6 autophagy related 6 homolog (S. cerevisiae); VPS30; ATG6 autophagy related 6 homolog; coiled-coil myosin-like BCL2-interacting protein; beclin 1 (coiled-coil, moesin-like BCL2 interacting protein); beclin 1 (coiled-coil, moesin-like BCL2-interacting protein); beclin1;

Gene ID [8678](#)

mRNA Refseq [NM_003766](#)

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Protein Refseq	NP_003757
MIM	604378
UniProt ID	Q14457
Chromosome Location	17q21
Pathway	Regulation of autophagy, organism-specific biosystem; Regulation of autophagy, conserved biosystem; Senescence and Autophagy, organism-specific biosystem;
Function	protein binding;

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