

Recombinant human Beclin 1/BECN1 protein

Catalog Number: ATGP1816

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-450aa

UniProt No.

Q14457

NCBI Accession No.

NP_003757.1

Alternative Names

Beclin 1, Coiled-coil myosin-like BCL2-interacting protein, Protein GT197, Beclin 1 autophagy related, ATG6, ATG6 autophagy related 6 homolog, VPS30

PRODUCT SPECIFICATION

Molecular Weight

54.1 kDa (470aa)

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.5) containing 0.1M NaCl, 10% glycerol, 1mM DTT

Purity

> 85% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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

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chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer.

Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH> MEGSKTSNNS TMQVSFVCQR CSQPLKLDTS FKILDRVTIQ ELTAPLLTTA
QAKPGETQEE ETNSGEEPFI ETPRQDGVSR RFIPPARMMS TESANSFTLI GEASDGGTME NLSRRLKVTG DLFDIMSGQT
DVDHPLCEEC TDTLLDQLDT QLNVTENECQ NYKRCLEILE QMNEDDSEQL QMELKELALE EERLIQELED VEKNRKIVAE
NLEKVQAEAE RLDQEEAQYQ REYSEFKRQQ LELDDELKSV ENQMRYAQTQ LDKLKKTNVF NATFHIWHSG QFGTINNFR
GRLPSVPVEW NEINAAWGQT VLLHALANK MGLKFQRYRL VPYGNHSTYLE SLTDKSKELP LYCSGGLRFF WDNKFDHAMV
AFLDCVQQFK EEEVKGTRF CLPYRMDVEK GKIEDTGGSG GSYSIKTQFN SEEQWTKALK FMLTNLKWGL AWWSSQFYNK

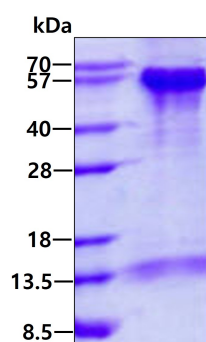
General References

Sagona A.P., et al. (2010) Nat. Cell Biol. 12:362-371

Itakura E., et al. (2008) Mol. Biol. Cell 19:5360-5372

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.