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Beclin 1 Protein (AA 134-450) (His tag)



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Overview

Quantity:	1 mg
Target:	Beclin 1 (BECN1)
Protein Characteristics:	AA 134-450
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Beclin 1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:

HPLCEECTDT LLDQLDTQLN VTENECQNYK RCLEILEQMN EDDSEQLQME LKELALEEER
LIQELEDVEK NRKIVAENLE KVQAEAERLD QEEAQYQREY SEFKRQQLEL DDELKSVENQ
MRYAQTQLDK LKKTNVFNAT FHIWHSGQFG TINNFRLGRL PSVPVEWNEI NAAWGQTVLL
LHALANKMGL KFQRYRLVPY GNHSYLESLT DKSKELPLYC SGGLRFFWDN KFDHAMVAFL
DCVQQFKEEV EKGETRFCLP YRMDVEKGKI EDTGGSGGSY SIKTQFNSEE QWTKALKFML

TNLKWGLAWV SSQFYNK

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Characteristics:

- Made in Germany from design to production by highly experienced protein experts.
- Human BECN1 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made to order protein and will be made for the first time for your order. Our experts in the lab will ensure that you receive a correctly folded protein.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

The concentration of our recombinant proteins is measured using the absorbance at 280nm.

The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

- 1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
- 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity:

>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility:

0.22 µm filtered

Endotoxin Level:

Protein is endotoxin free.

Grade:

Crystallography grade

Target Details

Target:	Beclin 1 (BECN1)
Alternative Name:	BECN1 (BECN1 Products)
Background:	Plays a central role in autophagy (PubMed:23184933). Acts as core subunit of the PI3K

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	complex that mediates formation of phosphatidylinositol 3-phosphate, different complex forms
	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
	abcission step in cytokinesis, probably in the context of PI3KC3-C2 (PubMed:20643123,
	PubMed:20208530). Essential for the formation of PI3KC3-C2 but not PI3KC3-C1 PI3K complex
	forms. Involved in endocytosis (PubMed:25275521). Protects against infection by a
	neurovirulent strain of Sindbis virus (PubMed:9765397). May play a role in antiviral host
	defense. {ECO:0000269 PubMed:20208530, ECO:0000269 PubMed:20643123,
	ECO:0000269 PubMed:23184933, ECO:0000269 PubMed:25275521,
	ECO:0000269 PubMed:9765397, ECO:0000305}., Beclin-1-C 35 kDa localized to mitochondria
	can promote apoptosis, it induces the mitochondrial translocation of BAX and the release of
	proapoptotic factors. {ECO:0000269 PubMed:21364619, ECO:0000269 PubMed:26263979}.
Molecular Weight:	38.3 kDa Including tag.
UniProt:	Q14457
Pathways:	Autophagy
Application Details	
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies
	as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Comment:	In cases in which it is highly likely that the recombinant protein with the default tag will be
	insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to
	increase solubility. We will discuss all possible options with you in detail to assure that you
	receive your protein of interest.
Restrictions:	For Research Use only
Handling	
Format:	Liquid

Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C

Handling

Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)