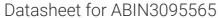
# antibodies -online.com





# SQSTM1 Protein (AA 2-440) (His tag)





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## Overview

Quantity:	1 mg
Target:	SQSTM1
Protein Characteristics:	AA 2-440
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SQSTM1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

## **Product Details**

## Sequence:

ASLTVKAYLL GKEDAAREIR RFSFCCSPEP EAEAEAAAGP GPCERLLSRV AALFPALRPG
GFQAHYRDED GDLVAFSSDE ELTMAMSYVK DDIFRIYIKE KKECRRDHRP PCAQEAPRNM
VHPNVICDGC NGPVVGTRYK CSVCPDYDLC SVCEGKGLHR GHTKLAFPSP FGHLSEGFSH
SRWLRKVKHG HFGWPGWEMG PPGNWSPRPP RAGEARPGPT AESASGPSED PSVNFLKNVG
ESVAAALSPL GIEVDIDVEH GGKRSRLTPV SPESSSTEEK SSSQPSSCCS DPSKPGGNVE
GATQSLAEQM RKIALESEGR PEEQMESDNC SGGDDDWTHL SSKEVDPSTG ELQSLQMPES
EGPSSLDPSQ EGPTGLKEAA LYPHLPPEAD PRLIESLSQM LSMGFSDEGG WLTRLLQTKN
YDIGAALDTI QYSKHPPPL

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 SQSTM1 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.
- 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: SQSTM1

Alternative Name: SQSTM1 (SQSTM1 Products)

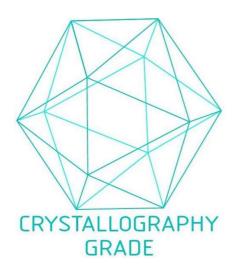
# Target Details

Background:	Autophagy receptor that interacts directly with both the cargo to become degraded and an
	autophagy modifier of the MAP1 LC3 family. Required both for the formation and autophagic
	degradation of polyubiquitin-containing bodies, called ALIS (aggresome-like induced structures)
	and links ALIS to the autophagic machinery. Involved in midbody ring degradation. May regulate
	the activation of NFKB1 by TNF-alpha, nerve growth factor (NGF) and interleukin-1. May play a
	role in titin/TTN downstream signaling in muscle cells. May regulate signaling cascades
	through ubiquitination. Adapter that mediates the interaction between TRAF6 and CYLD (By
	similarity). May be involved in cell differentiation, apoptosis, immune response and regulation of
	K(+) channels. {ECO:0000250, ECO:0000269 PubMed:10356400,
	ECO:0000269 PubMed:10747026, ECO:0000269 PubMed:11244088,
	ECO:0000269 PubMed:12471037, ECO:0000269 PubMed:15340068,
	ECO:0000269 PubMed:15802564, ECO:0000269 PubMed:15911346,
	ECO:0000269 PubMed:15953362, ECO:0000269 PubMed:16079148,
	ECO:0000269 PubMed:16286508, ECO:0000269 PubMed:19931284,
	ECO:0000269 PubMed:20168092, ECO:0000269 PubMed:24128730}.
Molecular Weight:	48.5 kDa Including tag.
UniProt:	Q13501
Pathways:	NF-kappaB Signaling, Neurotrophin Signaling Pathway, 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 gurantee
	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
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
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# Handling

Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

## **Images**



**Image 1.** "Crystallography Grade" protein due to multi-step, protein-specific purification process