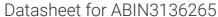
# antibodies .- online.com







# EXOSC6 Protein (AA 1-273) (Strep Tag)



#### Overview

Quantity:	1 mg
Target:	EXOSC6
Protein Characteristics:	AA 1-273
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This EXOSC6 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

#### **Product Details**

### Sequence:

MPGDHRRIRG PEESQPPQLY AAEDDETPAA RDPTRLRPVY ARAGLLSQAK GSAYLEAGGT KVLCAVSGPR QAEGGERGSG PAGAGGEAPA ALRGRLLCDF RRAPFSGRRR RAPQGGGGED RELGLALQEA LEPAVRLGRY PRAQLEVSAL LLEDGGCALA AALTAAALAL ADAGVEMYDL VVGCGLSLTP GPSPTWLLDP TRLEEEHSAA GLTVALMPVL NQVAGLLGSG EGGQTESWTD AVRLGLEGCQ RLYPVLQQCL VRAARRRGAA APP

Sequence without tag. The proposed Strep-Tag is based on experience s with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.

#### Characteristics:

Key Benefits:

- Made in Germany from design to production by highly experienced protein experts.
- · Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure correct folding and modification.

- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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.

#### Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require posttranslational modifications.
- During lysate production, the cell wall and other cellular components that are not required for
  protein production are removed, leaving only the protein production machinery and the
  mitochondria to drive the reaction. During our lysate completion steps, the additional
  components needed for protein production (amino acids, cofactors, etc.) are added to
  produce something that functions like a cell, but without the constraints of a living system all that's needed is the DNA that codes for the desired protein!

## Concentration:

- 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.
- We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

#### Purification:

Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):

- 1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. 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:

≥ 80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Endotoxin Level:

Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)

# **Target Details**

Target:	EXOSC6
Alternative Name:	Exosc6 (EXOSC6 Products)
Background:	Exosome complex component MTR3 (Exosome component 6) (mRNA transport regulator 3
	homolog),FUNCTION: Non-catalytic component of the RNA exosome complex which has 3'->5
	exoribonuclease activity and participates in a multitude of cellular RNA processing and
	degradation events. In the nucleus, the RNA exosome complex is involved in proper maturation
	of stable RNA species such as rRNA, snRNA and snoRNA, in the elimination of RNA processing
	by-products and non-coding 'pervasive' transcripts, such as antisense RNA species and
	promoter-upstream transcripts (PROMPTs), and of mRNAs with processing defects, thereby
	limiting or excluding their export to the cytoplasm. The RNA exosome may be involved in Ig
	class switch recombination (CSR) and/or Ig variable region somatic hypermutation (SHM) by
	targeting AICDA deamination activity to transcribed dsDNA substrates. In the cytoplasm, the
	RNA exosome complex is involved in general mRNA turnover and specifically degrades
	inherently unstable mRNAs containing AU-rich elements (AREs) within their 3' untranslated
	regions, and in RNA surveillance pathways, preventing translation of aberrant mRNAs. It seems
	to be involved in degradation of histone mRNA. The catalytic inactive RNA exosome core
	complex of 9 subunits (Exo-9) is proposed to play a pivotal role in the binding and presentation
	of RNA for ribonucleolysis, and to serve as a scaffold for the association with catalytic subunits
	and accessory proteins or complexes (By similarity). {ECO:0000250,
	ECO:0000269 PubMed:21255825}.
Molecular Weight:	28.4 kDa
UniProt:	Q8BTW3
Pathways:	Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process,
	Production of Molecular Mediator of Immune Response
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:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from
	Nicotiana tabacum c.v This contains all the protein expression machinery needed to produce
	even the most difficult-to-express proteins, including those that require post-translational
	modifications.

# **Application Details**

During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Restrictions:

For Research Use only

## Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)