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Datasheet for ABIN3135029
TRIP13 Protein (AA 1-432) (Strep Tag)

Overview

Quantity:	1 mg
Target:	TRIP13
Protein Characteristics:	AA 1-432
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TRIP13 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence: MDEAVGDLKQ ALPCVAESPA VHVEVLQRSG STAKKEDIKS SVYRLLNRHN IVFGDYVWTE
FDDPFLSRNV QSVSIVDTEL KAKDPQPIDL SACTIALHIF QLNEEGPSSE NLDEETENII
AASHWVLPAA EFHGLWDSL VYDVEVKSHLL DYVMTTVLFS DKNVDSNLIT WNRVVLLHGP
PGTGKTSLCK ALAQKLTIRL SSRYRYGQLI EINSHSLFSK WFSESGKLV T KMFQKIQDLI
DDKEALVFVL IDEVESLTAA RNACRAGAEP SDAIRVVNAV LTQIDQIKRH SNVVILTTSN
ITEKIDVAFV DRADIKQYIG PPSAAAIFKI YLSCLEELMK CQIYPRQQL LTLRELEMIG FIENNVSKLS
LLLSEISRKS EGLSGRVL RK LPFLAHALYI QAPSVTIEGF LQALSLAVDK QFEEKKLSA YV

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 post-translational 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.
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.

Product Details

Purity: $\geq 80\%$ 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: TRIP13

Alternative Name: Trip13 ([TRIP13 Products](#))

Background: Pachytene checkpoint protein 2 homolog (Thyroid hormone receptor interactor 13) (Thyroid receptor-interacting protein 13) (TR-interacting protein 13) (TRIP-13),FUNCTION: Plays a key role in chromosome recombination and chromosome structure development during meiosis. Required at early steps in meiotic recombination that leads to non-crossovers pathways. Also needed for efficient completion of homologous synapsis by influencing crossover distribution along the chromosomes affecting both crossovers and non-crossovers pathways. Also required for development of higher-order chromosome structures and is needed for synaptonemal-complex formation. In males, required for efficient synapsis of the sex chromosomes and for sex body formation. Promotes early steps of the DNA double-strand breaks (DSBs) repair process upstream of the assembly of RAD51 complexes. Required for depletion of HORMAD1 and HORMAD2 from synapsed chromosomes (PubMed:17696610, PubMed:19851446, PubMed:20711356). Plays a role in mitotic spindle assembly checkpoint (SAC) activation (By similarity). {ECO:0000250|UniProtKB:Q15645, ECO:0000269|PubMed:17696610, ECO:0000269|PubMed:19851446, ECO:0000269|PubMed:20711356}.

Molecular Weight: 48.4 kDa

UniProt: [Q3UA06](#)

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.

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Application Details

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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)