

Datasheet for ABIN3085324
FAM105B Protein (AA 1-352) (Strep Tag)



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1 Image

Overview

Quantity:	1 mg
Target:	FAM105B
Protein Characteristics:	AA 1-352
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This FAM105B protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence: MSRGTMPQPE AWPGASCAET PAREAAATAR DGGKAAASGQ PRPEMQCPAE HEEDMYRAAD
EIEKEKELLI HERGASEPRL SVAPEMDIMD YCKKEWRGNT QKATCMKMGY EEVSQKFTSI
RRVRGDNYCA LRATLFQAMS QAVGLPPWLQ DPELMLLPEK LISKYNWIKQ WKLGLKFDGK
NEDLVDKIKE SLTLLRKKWA GLAEMRTAEA RQIACDELFT NEAEEYSLYE AVKFLMLNRA
IELYNDKEKG KEVPPFSVLL FARDTSNDPG QLLRNHLNQV GHTGGLEQVE MFLLAYAVRH
TIQVYRLSKY NTEEFITVYP TDPPKDWPVV TLIAEDDRHY NIPVRVCEET SL

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.

Purity:

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

Product Details

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

Grade: Crystallography grade

Target Details

Target: FAM105B

Alternative Name: OTULIN ([FAM105B Products](#))

Background: Ubiquitin thioesterase otulin (EC 3.4.19.12) (Deubiquitinating enzyme otulin) (OTU domain-containing deubiquitinase with linear linkage specificity) (Ubiquitin thioesterase Gummy),FUNCTION: Deubiquitinase that specifically removes linear ('Met-1'-linked) polyubiquitin chains to substrates and acts as a regulator of angiogenesis and innate immune response (PubMed:26997266, PubMed:23708998, PubMed:23746843, PubMed:23806334, PubMed:23827681, PubMed:27523608, PubMed:27559085, PubMed:24726323, PubMed:24726327, PubMed:28919039, PubMed:35170849, PubMed:35587511). Required during angiogenesis, craniofacial and neuronal development by regulating the canonical Wnt signaling together with the LUBAC complex (PubMed:23708998). Acts as a negative regulator of NF-kappa-B by regulating the activity of the LUBAC complex (PubMed:23746843, PubMed:23806334). OTULIN function is mainly restricted to homeostasis of the LUBAC complex: acts by removing 'Met-1'-linked autoubiquitination of the LUBAC complex, thereby preventing inactivation of the LUBAC complex (PubMed:26670046). Acts as a key negative regulator of inflammation by restricting spontaneous inflammation and maintaining immune homeostasis (PubMed:27523608). In myeloid cell, required to prevent unwarranted secretion of cytokines leading to inflammation and autoimmunity by restricting linear polyubiquitin formation (PubMed:27523608). Plays a role in innate immune response by restricting linear polyubiquitin formation on LUBAC complex in response to NOD2 stimulation, probably to limit NOD2-dependent pro-inflammatory signaling (PubMed:23806334). {ECO:0000269|PubMed:23708998, ECO:0000269|PubMed:23746843, ECO:0000269|PubMed:23806334, ECO:0000269|PubMed:23827681, ECO:0000269|PubMed:24726323, ECO:0000269|PubMed:24726327, ECO:0000269|PubMed:26670046, ECO:0000269|PubMed:26997266, ECO:0000269|PubMed:27523608, ECO:0000269|PubMed:27559085, ECO:0000269|PubMed:28919039, ECO:0000269|PubMed:35170849, ECO:0000269|PubMed:35587511}.

Molecular Weight: 40.3 kDa

UniProt: [Q96BN8](#)

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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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)



Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process