

Datasheet for ABIN7550399  
**FAM105B Protein (AA 1-352) (His tag)**



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## Overview

Quantity:	1 mg
Target:	FAM105B
Protein Characteristics:	AA 1-352
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FAM105B protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Purpose:	Custom-made recombinat OTULIN Protein expressed in mammalien cells.
Sequence:	<p>MSRGTMPQPE AWPGASCAET PAREAAATAR DGGKAAASGQ PRPEMQCPAE HEEDMYRAAD EIEKEKELLI HERGASEPRL SVAPENDIMD 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 <b>Sequence without tag. The proposed Purification-Tag is based on experiences 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.</b></p>
Characteristics:	Key Benefits:

## Product Details

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- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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 try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

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Purity: > 90 % as determined by Bis-Tris Page, Western Blot

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Grade: custom-made

## Target Details

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Target: FAM105B

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

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Background: Ubiquitin thioesterase otulin (EC 3.4.19.12) (Deubiquitinating enzyme otulin) (OTU domain-containing deubiquitinase with linear linkage specificity) (Ubiquitin thioesterase Gumbo), 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

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## Target Details

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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}.

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Molecular Weight: 40.3 kDa

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UniProt: [Q96BN8](#)

## Application Details

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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

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months