

Datasheet for ABIN7547610  
**FICD Protein (AA 1-458) (His tag)**



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## Overview

Quantity:	1 mg
Target:	FICD
Protein Characteristics:	AA 1-458
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FICD protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Purpose:	Custom-made recombinat FICD Protein expressed in mammalien cells.
Sequence:	MMLIPMASVM AVTEPKWVSV WSRFLWVTLL SMVLGSELLAL LLPLGAVEEQ CLAVLKGLYL LRSKPDRAQH AATKCTSPST ELSITSRGAT LLVAKTKASP AGKLEARAAL NQALEMKRQG KREKAQKLFM HALKMDPDFV DALTEFGIFS EEDKDIIQAD YLYTRALTIS PYHEKALVNR DRTLPLVEEI DQRYFSIIDS KVKKVMSIPK GNSALRRVME ETTYHHIYHT VAIEGNTLTL SEIRHILETR YAVPGKSLEE QNEVIGMHAA MKYINTTLVS RIGSVTISDV LEIHRRVLGY VDPVEAGRFR TTQVLVGHHI PPHPQDVEKQ MQEFVQWLNS EEAMNLHPVE FAALAHYKLV YIHPFIDGNG RTSRLLMNL ILMQAGYPPIT IRKEQRSDYY HVLEAANEGD VRPFIRFIK CTETTLDTLL FATTEYSVAL PEAQPNHSGF KETLPVKP <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>

## Product Details

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### Characteristics:

#### Key Benefits:

- 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:

FICD

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### Alternative Name:

FICD ([FICD Products](#))

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### Background:

Protein adenylyltransferase FICD (EC 2.7.7.108) (AMPylator FICD) (De-AMPylase FICD) (EC 3.1.4.-) (FIC domain-containing protein) (Huntingtin yeast partner E) (Huntingtin-interacting protein 13) (HIP-13) (Huntingtin-interacting protein E),FUNCTION: Protein that can both mediate the addition of adenosine 5'-monophosphate (AMP) to specific residues of target proteins (AMPylation), and the removal of the same modification from target proteins (de-AMPylation), depending on the context (By similarity). The side chain of Glu-231 determines which of the two opposing activities (AMPylase or de-AMPylase) will take place (By similarity). Acts as a key regulator of the ERN1/IRE1-mediated unfolded protein response (UPR) by mediating AMPylation or de-AMPylation of HSPA5/BiP (PubMed:25601083). In unstressed cells, acts as an adenylyltransferase by mediating AMPylation of HSPA5/BiP at 'Thr-518', thereby inactivating it (By similarity). In response to endoplasmic reticulum stress, acts as a phosphodiesterase by mediating removal of ATP (de-AMPylation) from HSPA5/BiP at 'Thr-518', leading to restore HSPA5/BiP activity (By similarity). Although it is able to AMPylate RhoA, Rac and Cdc42 Rho

## Target Details

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GTPases in vitro, Rho GTPases do not constitute physiological substrates (PubMed:19362538, PubMed:25601083). {ECO:0000250|UniProtKB:A0A061I403, ECO:0000269|PubMed:22266942, ECO:0000269|PubMed:25435325, ECO:0000269|PubMed:25601083, ECO:0000305|PubMed:19362538}.

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Molecular Weight: 51.8 kDa

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UniProt: [Q9BVA6](#)

## 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