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Datasheet for ABIN7558687
FICD Protein (AA 1-458) (His tag)

Overview

Quantity:	1 mg
Target:	FICD
Protein Characteristics:	AA 1-458
Origin:	Mouse
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:	MILMPMASVV AVAEPKWVSV WGRFLWMALL SMALGSLAL LLPLGVVEEH CLAVLRGFHL LRSKLDRAQP VVPKCTSLCT ELSVSSRDAG LLTVKTTASP AGKLEAKAAL NQALEMKRQG KRGKAHKLFL HALKMDPGFV DALNEFGIFS EEDKDIIQAD YLYTRALTIS PFHEKALVNR DRTLPLVEEI DQRYFSVIDS KVKKVMSIPK GSSALRRVME ETYYHHIYHT VAIEGNTLTL SEIRHILETR YAVPGKSLEE QNEVIGMHAA MKYINTTLVS RIGSVTMDDM LEIHRRLVGY VDPVEAGRFR RTQVLVGHHI PPHPRDVEKQ MQEFTQWLNS EDAMNLHPVE FAALAHYKLV YIHPFIDGNG RTSRLLMNL ILMQAGYPPIT IRKEQRSEYY HVLEVANEGD VRPFIRFIK CTEVLDTLL LATTEYSVAL PEAQPNHSGF KETLPVRP 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.

Product Details

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.

Purity:

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

Grade:

custom-made

Target Details

Target:

FICD

Alternative Name:

Ficd ([FICD Products](#))

Background:

Protein adenylyltransferase FICD (EC 2.7.7.108) (AMPylator FICD) (De-AMPylase FICD) (EC 3.1.4.-) (FIC domain-containing protein),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 (By similarity). 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 GTPases in vitro, Rho GTPases do not constitute physiological substrates (By similarity).

Target Details

{ECO:0000250|UniProtKB:A0A061I403, ECO:0000250|UniProtKB:Q9BVA6}.

Molecular Weight: 51.8 kDa

UniProt: [Q8BIX9](#)

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.

Restrictions: For Research Use only

Handling

Format: Liquid

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

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months