

Recombinant Mouse Ficd Protein, Myc/DDK-tagged

Cat. No. Ficd-3015M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length FIC domain containing (Ficd), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	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. The side chain of Glu-231 determines which of the two opposing activities (AMPyase or de-AMPyase) will take place. Acts as a key regulator of the ERN1/IRE1-mediated unfolded protein response (UPR) by mediating AMPylation or de-AMPylation of HSPA5/BiP. In unstressed cells, acts as an adenylyltransferase by mediating AMPylation of HSPA5/BiP at 'Thr-518', thereby inactivating it. 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. Although it is able to AMPylate RhoA, Rac and Cdc42 Rho GTPases in vitro, Rho GTPases do not constitute physiological substrates.
Molecular Mass	52.2 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and

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handling conditions. Avoid repeated freeze-thaw cycles.

Storage Store at -80 centigrade after receiving vials.

Concentration >50 µg/mL as determined by microplate BCA method

Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name Ficd FIC domain containing [Mus musculus (house mouse)]

Official Symbol Ficd

Synonyms FICD; FIC domain containing; adenosine monophosphate-protein transferase FICD; AMPylator FICD; FIC domain-containing protein; huntingtin interactor protein E; huntingtin interacting protein E; Hype; D5Ert40e; MGC117722

Gene ID 231630

mRNA Refseq NM_001010825

Protein Refseq NP_001010825

UniProt ID Q8BIX9

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