

Product datasheet for TP301725

HYPE (FICD) (NM_007076) Human Recombinant Protein

Product data:

| | |
|---------------------------------------|--|
| Product Type: | Recombinant Proteins |
| Description: | Recombinant protein of human FIC domain containing (FICD), 20 µg |
| Species: | Human |
| Expression Host: | HEK293T |
| Expression cDNA Clone or AA Sequence: | >RC201725 protein sequence Red=Cloning site Green=Tags(s) |

MMLIPMASVMAVTEPKWVSVWSRFLWVTLLSMVLGSLALLPLGAVEEQCLAVLKGLYLLRSKPDRAQH
 AATKCTSPSTELSITSRGATLLVAKTKASPAGKLEARAALNQALEMKRQGKREKAQKLFMHALKMDPDFV
 DALTEFGIFSEEDKDIIQADYLYTRALTISPYHEKALVNRDRTLPLVEEIDQRYFSIIDSKVKKVMSIPK
 GNSALRRVMEETYYHHIYHTVAIEGNTLTLSERHILETRYAVPGKSLEEQNEVIGMHAAMKYINTTLVS
 RIGSVTISDVLEIHRRVLGYVDPVEAGRFRTTQVLVGHHPHPQDVEKQMQUEFVQWLNSEEAMNLHPVE
 FAALAHYKLVYIHPFIDGNGRTSRLLMNLILMQAGYPPITIRKEQRSYYHVLEAANECDVRPFIRFIK
 CTETTLDTLLFATTEYSVALPEAQPNSHSGFKETLPVKP

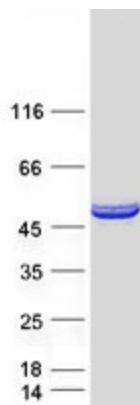
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

| | |
|----------------|--|
| Tag: | C-Myc/DDK |
| Predicted MW: | 51.6 kDa |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method |
| Purity: | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| Buffer: | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol |
| Preparation: | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps. |
| Note: | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. |
| Storage: | Store at -80°C. |
| Stability: | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| RefSeq: | <u>NP_009007</u> |


[View online »](#)

| | |
|-------------------|--|
| Locus ID: | 11153 |
| UniProt ID: | Q9BVA6 |
| RefSeq Size: | 1651 |
| Cytogenetics: | 12q23.3 |
| RefSeq ORF: | 1374 |
| Synonyms: | HIP13; HYPE; UNQ3041 |
| Summary: | 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 GTPases in vitro, Rho GTPases do not constitute physiological substrates (PubMed:19362538, PubMed:25601083).[UniProtKB/Swiss-Prot Function] |
| Protein Families: | Transmembrane |

Product images:



Coomassie blue staining of purified FICD protein (Cat# TP301725). The protein was produced from HEK293T cells transfected with FICD cDNA clone (Cat# [RC201725]) using MegaTran 2.0 (Cat# [TT210002]).