

Recombinant Human FLII Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP50336

Size: 10ug, 100ug

Protein Name: Protein flightless-1 homolog

Synonym: FLII, FLIL

UniProt ID: Q13045

UniProt Link: www.uniprot.org/uniprotkb/Q13045/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 1269 AA

Molecular Weight: 145 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MEATGVLPFVRGVDLSGNDFKGGYFPENVKAMTSLRWLKLNRTGLCYLPEELAALQKLEHLSVSHN
NLTTLHGELSSLPRLRAIVARANSKNSGVPDDIFKLDDLSVLDLSHNQLTECPRELENAKNMLVLNL
SHNSIDTIPNQLFINLTDLLYLDLSENRLSPQMRRLVHLQTLVLNGNPLLHAQLRQLPAMTALQTL
HLRSTQRTQSNLPTSLEGLSNLADVDLSCNDLTRVPECLYTLPSLRRLNLSSNQITELSLCIDQWVHV
ETLNLNRNQLTSLPSAICKLSKLKKLYLNSNKLDFDGLPSGIGKLTNLEEFMAANNLELVPESLCRCP
KLRKLVLNKNHLVTLPEAIHFLTEIEVLDVRENPNLVMPPKPADRAAEWYNIDFSLQNQLRLAGASPA
TVAAAAAAGSGPKDPMARKMRLRRRKDSAQDDQAKQVLKGMSDVAQEKNKKQEEADARAPSGK
VRRWDQGLEKPRLDYSEFFTEDVGQLPGLTIWQIENFVPLVEEAFHGKFYEADCYIVLKTFLDDSG
SLNWEIYYWIGGEATLDKKACSAIHAVNLRNYLGAECRTVREEMGDESEEFQVFDNDISYIEGGTA
SGFYTVEDTHYVTRMYRVYGGKNIKLEPVPLKGTSLDPRFVFLDRGLDIYVWRGAQATLSSTTKAR
LFAEKINKNERKGKAEITLLVQGGQELPEFWEALGGEPSEIKKHVPEDFWPPQPKLYKVGLGLGYLELP
QINYKLSVEHKQRPKVELMPRMRLQSLDTRCVYILDCWSDVFIWLGRKSPRLVRAAALKLGQELC
GMLHRPRHATVSRSLLEGTEAQVFKAFFKNWDDVLTVDYTRNAEAVLQSPGLSGKVKRDAEKKDQM
KADLTALFLPRQPPMSLAEEQLMEEWNEDLDGMEGFVLEGGKFARLPEEEFGHFYTQDCYVFLCR
YWVPVEYEEEEKKEDKEEKAEGKEGEEATAEAEEKQPEEDFQCIVYFWQGREASNMGWLTFTFSL
QKKFESLFPKGLEVRMTQQQENPKFLSHFKRKFIIHRGKRKAVQGAQQPSLYQIRTNGSALCTRCI
QINTDSSLLNSEFCFILKVPFESEDNQGIVYAWVGRASDPDEAKLAEDILNTMFDTSYSKQVINEGEE
PENFFWVGIGAQPYPDDAEYMKHTRLFRCSNEKGYFAVTEKCSDFCQDDLADDDIMLLDNGQEVY
MWVGTQTSQVEIKLSLKACQVYIQHMRSKEHERPRRLRLVRKGNEQHAFTRCFHAWSAFCKALA

3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

5. Product Description

This product is recombinant Protein flightless-1 homolog produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

Protein Function: Is a regulator of actin polymerization, required for proper myofibril organization and regulation of the length of sarcomeric thin filaments (By similarity). It also plays a role in the assembly of cardiomyocyte cell adhesion complexes (By similarity). Regulates cytoskeletal rearrangements involved in cytokinesis and cell migration, by inhibiting Rac1-dependent paxillin phosphorylation (By similarity). May play a role as coactivator in transcriptional activation by hormone-activated nuclear receptors (NR) and acts in cooperation with NCOA2 and CARM1 (PubMed:14966289). Involved in estrogen hormone signaling.

Subcellular Localization: Nucleus . Cytoplasm, cytoskeleton . Cytoplasm, cytoskeleton, microtubule organizing center, centrosome . Cell projection, podosome . Cell junction, focal adhesion .
Note=Colocalizes to actin-rich structures in blastocysts and, together with HRAS, RHOA and CDC42, in migrating fibroblasts. Localizes to centrosomes (By similarity). Localized to the core of macrophage podosomes (By similarity).

6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.