Recombinant RFFL protein (His tag)

Catalog Number	545580
Synonyms	Caspase regulator CARP2; Caspases-8 and -10-associated RING finger protein 2; CARP-2; FYVE-RING finger protein Sakura; Fring; RING finger and FYVE-like domain-containing protein 1; RING finger protein 189; RING finger protein 34-like; RING-type E3 ubiquitin transferase rififylin
Species	Human
Expression System	E. coli
Accession	Q8WZ73
Molecular Weight	Predictes a molecular mass of 16.08 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 17 kDa band.

Product Information

Sequence Region	237-363
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 237-363 aa (Q8WZ73) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Recombinant Human E3 ubiquitin-protein ligase rififylin fragment (residues 237-363) is a high-purity protein designed for studying the SAP 2 functional domain. This fragment serves as an essential tool for researchers investigating ubiquitin-mediated proteasomal degradation pathways, apoptosis regulation, and protein-protein interactions in cellular signaling. E3 ubiquitin-protein ligase rififylin (RFFL) is a key regulatory enzyme in Homo sapiens that controls multiple biological processes through ubiquitin-mediated proteasomal degradation of target proteins. It mediates 'Lys-48'-linked polyubiquitination of various substrates including PRR5L, caspases CASP8 and CASP10, RIPK1, and p53/TP53, thereby influencing cell migration, apoptosis regulation, TNF-mediated signaling, and tumor suppressor pathways. The protein localizes to the cytoplasm, cytosol, cell membrane, and recycling endosome membrane, with its FYVE-type zinc finger domain facilitating phosphatidylinositol phosphate-binding and subcellular localization. This fragment specifically encompasses the SAP 2 domain, enabling focused investigation of domain-specific functions within ubiquitination cascades and cellular regulation mechanisms.