Recombinant RNF34 protein (His tag)

Catalog Number	543337
Synonyms	Caspase regulator CARP1; Caspases-8 and -10-associated RING finger protein 1; CARP-1; FYVE-RING finger protein Momo; Human RING finger homologous to inhibitor of apoptosis protein; hRFI; RING finger protein 34; RING finger protein RIFF; RING-type E3 ubiquitin transferase RNF34
Species	Human
Expression System	E. coli
Accession	Q969K3
Molecular Weight	Predictes a molecular mass of 15.72 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 17 kDa band.

Product Information

Sequence Region	251-372
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>88%, 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 251-372 aa (Q969K3) 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 RNF34 (EC 2.3.2.27) Fragment (aa 251-372) is a high-purity protein designed for targeted research on ubiquitination and apoptosis regulation. This 122-amino acid fragment fully encompasses the SAP 2 domain, making it an ideal tool for investigating domain-specific functions in protein degradation pathways and cell death mechanisms. E3 ubiquitin-protein ligase RNF34 is a key regulatory enzyme in Homo sapiens that controls multiple biological processes through ubiquitin-mediated proteasomal degradation of target proteins. It negatively regulates apoptosis by ubiquitinating caspases CASP8 and CASP10, promotes degradation of p53/TP53, and modulates metabolic regulation through PPARGC1A degradation. The protein also influences innate immunity by ubiquitinating NOD1 and regulates tumor necrosis factor signaling through RIPK1 degradation. RNF34 exhibits complex subcellular localization, found at the cell membrane, within the endomembrane system, nucleus (particularly nuclear speckles), and cytoplasmic compartments, reflecting its diverse functional roles in cellular regulation and signaling pathways.