Recombinant TNIP2 protein (His tag)

Catalog Number	538552
Synonyms	A20-binding inhibitor of NF-kappa-B activation 2; ABIN-2; Fetal liver LKB1-interacting protein
Species	Human
Expression System	E. coli
Accession	Q8NFZ5
Molecular Weight	Predictes a molecular mass of 41.17 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 46 kDa band.

Product Information

Sequence Region	1-342
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 1-342 aa (Q8NFZ5) 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	This recombinant protein represents amino acids 1-342 of human TNFAIP3-interacting protein 2 (TNIP2/ABIN-2), a key regulator of NF-kappa-B signaling pathways. The fragment has been computationally optimized for stability and solubility, making it ideal for structural studies and functional assays investigating innate immune signaling mechanisms. TNIP2 (also known as ABIN-2) is a multifunctional protein that primarily inhibits NF-kappa-B activation by disrupting the interaction between RIPK1 and NEMO/IKBKG. It plays crucial roles in innate immune signaling, forming complexes with NFKB1 and MAP3K8 in the TLR4 pathway and functioning upstream of MAP3K8 activation. The protein also contributes to MEK/ERK signaling pathway activation during immune responses, promotes endothelial cell survival, and regulates apoptosis. TNIP2 exhibits dual subcellular localization, primarily residing in the cytoplasm but capable of nuclear translocation where it may function as a transcriptional coactivator. Its involvement in multiple signaling pathways makes it a significant protein for studying inflammatory responses, cell survival mechanisms, and immune regulation.