Recombinant TRI52 protein (His tag)

Catalog Number	547908
Synonyms	RING finger protein 102; Tripartite motif-containing protein 52
Species	Human
Expression System	E. coli
Accession	Q96A61
Molecular Weight	Predictes a molecular mass of 15.50 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 15 kDa band.

Product Information

Sequence Region	180-297
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, 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 180-297 aa (Q96A61) 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 TRIM52 fragment (residues 180-297), a stable and soluble protein unit ideal for structural studies and biochemical characterization of this important ubiquitination enzyme involved in NF-kappa-B signaling and antiviral defense mechanisms. TRIM52 is an E3 ubiquitin-protein ligase (EC 2.3.2.27) that plays a crucial role in positively regulating the NF-kappa-B signaling pathway, a key mediator of immune and inflammatory responses. The full-length protein exhibits dual subcellular localization, being found in both the cytoplasm (including cytosol) and nucleus. Notably, TRIM52 demonstrates antiviral activity against Japanese encephalitis virus by ubiquitinating the viral non-structural protein 2 (NS2A) and targeting it for proteasome-mediated degradation. This fragment (residues 180-297) represents a computationally selected stable and soluble region suitable for detailed structural and functional analyses of TRIM52's biochemical properties.