Recombinant TRI59 protein (His tag)

Catalog Number	547689
Synonyms	RING finger protein 104; Tumor suppressor TSBF-1
Species	Human
Expression System	E. coli
Accession	Q8IWR1
Molecular Weight	Predictes a molecular mass of 40.04 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 43 kDa band.

Product Information

Sequence Region	1-328
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, 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 1-328 aa (Q8IWR1) 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 Tripartite motif-containing protein 59 (TRIM59) fragment (amino acids 1-328) is a high-purity protein designed for structural and biochemical studies. This soluble fragment retains key functional characteristics of the full-length E3 ubiquitin ligase, offering researchers a reliable tool to investigate its roles in immune regulation, autophagy, and development. Tripartite motif-containing protein 59 (TRIM59) is an E3 ubiquitin ligase involved in critical cellular processes, including immune response modulation and autophagy regulation. It negatively regulates innate immune signaling by suppressing RLR-induced activation of IRF3/7 and NF-κB through interaction with ECSIT. Additionally, TRIM59 controls autophagy by modulating BECN1 transcription and ubiquitination, impacting BECN1-PIK3C3 complex formation and promoting TRAF6 degradation. The protein is localized to the endoplasmic reticulum membrane as a single-pass membrane protein, underscoring its importance in intracellular signaling pathways and potential implications in disease mechanisms.