Recombinant TRI31 protein (His tag)

Catalog Number	541204
Synonyms	Tripartite motif-containing protein 31
Species	Human
Expression System	E. coli
Accession	Q9BZY9
Molecular Weight	Predictes a molecular mass of 39.63 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 42 kDa band.

Product Information

Sequence Region	1-327
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 1-327 aa (Q9BZY9) 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 TRIM31 (E3 ubiquitin-protein ligase TRIM31) fragment (residues 1-327) is a high-purity protein designed for structural and biochemical studies. This stable, soluble fragment retains key functional characteristics, enabling research into its role in antiviral immune responses and inflammasome regulation. TRIM31 is an E3 ubiquitin-protein ligase that plays a critical role in regulating antiviral immune responses and inflammation. It mediates 'Lys-63'-linked ubiquitination of MAVS, promoting mitochondrial antiviral signaling and filament formation, while also negatively regulating the NLRP3 inflammasome through 'Lys-48'-linked ubiquitination and degradation of NLRP3. Predominantly localized in the cytoplasm, TRIM31 translocates to mitochondria following viral infection, highlighting its importance in innate immune defense mechanisms and cellular signaling pathways.